

# PRODUCT CATALOG



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# ALWAYS THINK GREEN

Whatever your needs, ATG Electronics has the right solution for you. Our product lineup includes residential and commercial charging stations, energy storage systems, and related accessories—covering a wide range of application scenarios to meet diverse user requirements. Moving forward, we will continue to upgrade our products and solutions to better support our partners.

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**Deye** GE-FH/FL60

## GE Series

### Commercial (60kWh-3.6MWh)

| Model | GE-FL60 | GE-FH60 |
|-------|---------|---------|
|-------|---------|---------|

#### Main Parameter

|                                |                                     |                            |
|--------------------------------|-------------------------------------|----------------------------|
| Cell Chemistry                 | LiFePO <sub>4</sub>                 |                            |
| Module Energy (kWh)            | 5.12                                |                            |
| Module Nominal Voltage (V)     | 51.2                                |                            |
| System Capacity (Ah)           | 200                                 | 100                        |
| Battery Module Qty In Series   | 6                                   | 12                         |
| System Nominal Voltage (V)     | 307.2                               | 614.4                      |
| System Operating Voltage (V)   | 268.8 ~ 350.4                       | 480 ~ 700                  |
| System Energy (kWh)            | 61.44                               |                            |
| System Usable Energy (kWh)     | 55.29                               |                            |
| Rated DC Power                 | 61.44                               |                            |
| Charge / Discharge Current (A) | Recommend                           | 50                         |
|                                | Nominal                             | 100                        |
|                                | Peak Discharge (2 mins, 25°C)       | 125                        |
| Status Indicator               | Green: Battery System Running       | Red : Battery System Alarm |
| Communication Port             | CAN2.0 / RS485                      |                            |
| Humidity                       | 5% ~ 85%RH                          |                            |
| Altitude                       | ≤2000m                              |                            |
| IP Rating of Enclosure         | IP55                                |                            |
| Dimension (W × D × H, mm)      | 735 × 1045 × 2235                   |                            |
| Weight Approximate (kg)        | 1015                                |                            |
| Installation Method            | Floor-Mounted                       |                            |
| Storage Temperature (°C)       | 0~35                                |                            |
| Operating Temperature (°C)     | -30 ~ 60 (>45 Derating)             |                            |
| Recommend Depth of Discharge   | 90%                                 |                            |
| Cycle Life                     | ≥6000 (25±2°C, 0.5C / 0.5C, EOL70%) |                            |
| Warranty                       | 10 years                            |                            |
| Certification                  | UN38.3, UL1973, UL9540A, UL9540     |                            |

#### Compatible

Sol-Ark 30k / 60k Hybrid Inverter



**Deye** BOS-G60



## BOS-G Series

### Commercial (60kWh-9.6MWh)

| Model                                          | BOS-G40                                                              | BOS-G60      |
|------------------------------------------------|----------------------------------------------------------------------|--------------|
| <b>Main Parameter</b>                          |                                                                      |              |
| Cell Chemistry                                 | LiFePO <sub>4</sub>                                                  |              |
| Module Energy (kWh)                            | 5.12                                                                 |              |
| Module Nominal Voltage (V)                     | 51.2                                                                 |              |
| Module Capacity (Ah)                           | 100                                                                  |              |
| Battery Module Qty In Series (Optional)        | 8                                                                    | 12           |
| System Nominal Voltage (V)                     | 409.6                                                                | 614.4        |
| System Operating Voltage (V)                   | 332.8~467.2                                                          | 499.2~700    |
| System Energy (kWh)                            | 40.96                                                                | 61.44        |
| System Usable Energy (kWh) <sup>1</sup>        | 36.86                                                                | 55.29        |
| Rated DC Power                                 | 40.96                                                                | 61.44        |
| Charge / Discharge <sup>2</sup><br>Current (A) | Recommend                                                            | 50           |
|                                                | Nominal                                                              | 100          |
|                                                | Peak Discharge<br>(2 mins, 25°C)                                     | 125          |
| Working Temperature (°C)                       | Charge: 0~55/Discharge: -20~55                                       |              |
| Status Indicator                               | Yellow: Battery High Voltage Power On      Red: Battery System Alarm |              |
| Communication Port                             | CAN2.0/ RS485                                                        |              |
| Humidity                                       | 5%~85%RH                                                             |              |
| Altitude                                       | ≤2000m                                                               |              |
| IP Rating of Enclosure                         | IP20                                                                 |              |
| Dimension (W/D/H,mm)                           | 530*602*1599                                                         | 530*602*2187 |
| Weight Approximate (kg)                        | 408                                                                  | 594          |
| Installation Location                          | Rack Mounting                                                        |              |
| Storage Temperature (°C)                       | 0~35                                                                 |              |
| Recommend Depth of Discharge                   | 90%                                                                  |              |
| Cycle Life                                     | 25±2°C, 0.5C/0.5C, EOL70%≥6000                                       |              |
| Warranty <sup>3</sup>                          | 10 years                                                             |              |
| Certification                                  | CE/IEC62619 /VDE2510-50/ UL1973 /UL9540A/UN38.3                      |              |

### Compatible

Sol-Ark 30k / 60k Hybrid Inverter

1. DC Usable Energy, test conditions: 90% DOD, 0.2°C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.



**Deye** RW-F10.2

# DEYE RW SERIES

Residential (10kWh - 320kWh)

|              |                   |
|--------------|-------------------|
| <b>Model</b> | <b>RW-F10.2-B</b> |
|--------------|-------------------|

## Main Parameter

|                                                |                    |                                           |
|------------------------------------------------|--------------------|-------------------------------------------|
| Battery Chemistry                              |                    | LiFePO <sub>4</sub>                       |
| Built-in Circuit Breaker                       |                    | 125A 4P, 60Vdc                            |
| Capacity (Ah)                                  |                    | 200                                       |
| Scalability                                    |                    | Max. 32 pcs pack (Max.327kWh) in parallel |
| Nominal Voltage (V)                            |                    | 51.2                                      |
| Operating Voltage (V)                          |                    | 43.2 ~ 57.6                               |
| Nominal Energy (kWh)                           |                    | 10.24                                     |
| Usable Energy (kWh) <sup>1</sup>               |                    | 9.2                                       |
| Charge / Discharge <sup>2</sup><br>Current (A) | Recommend          | Charge : 100 / Discharge : 100            |
|                                                | Max.               | Charge : 198 / Discharge : 240            |
|                                                | Peak (2mins, 25°C) | 300                                       |

## Other Parameter

|                                            |                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------|
| Recommend Depth of Discharge               | 90%                                                                            |
| Dimension (W × H × D)                      | 23.6" × 32.7" × 7.9" (600 × 830 × 200mm, Without hanging board)                |
| Weight Approximate                         | 235.9 lbs. (107kg)                                                             |
| Master LED Indicator                       | LED (SOC : 20% ~ SOC100% and working state)                                    |
| IP Rating of Enclosure                     | NEMA 3R ( IP65 )                                                               |
| Operating Temperature                      | Charge : 33°F ~ 131°F ( 1 ~ 55°C ) / Discharge : -4°F ~ 131°F ( -20°C ~ 55°C ) |
| Operating Temperature (with heating film ) | Charge / Discharge : -4°F~131°F ( -20°C ~ 55°C )                               |
| External ambient temperature range         | -4°F ~ 131°F ( -20°C ~ 55°C, with heating film )                               |
| Recommend Operating Temperature            | 59°F ~ 95°F ( 15°C ~ 35°C )                                                    |
| Storage Temperature                        | 32°F ~ 95°F ( 0°C ~ 35°C )                                                     |
| Humidity                                   | 5% ~ 95%                                                                       |
| Altitude                                   | ≤Max. 9,843 ft ( 3,000m )                                                      |
| Cycle Life                                 | ≥6000 (25°C ± 2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)                                |
| Installation                               | Wall-Mounted, Floor-Mounted                                                    |
| Communication Port                         | CAN2.0, RS485                                                                  |
| Warranty Period <sup>3</sup>               | 10 years                                                                       |
| Energy Throughput                          | 32MWh (@25°C, 0.5C / 0.5C, 70%EOL)                                             |
| Certification                              | UN38.3, FCC, UL1973, UL9540A, UL9540                                           |

## Compatible

Sol-Ark 12kW / 15kW inverters

1. DC Usable Energy, test conditions : 90% DOD, 0.5°C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. Conditions apply, refer to Deye Warranty Letter.



**Deye**

## DEYE SE SERIES

Residential (5kWh - 327kWh)

| Model | SE-G5.1 Pro-B |
|-------|---------------|
|-------|---------------|

### Main Parameter

|                                                |                      |                                                                       |
|------------------------------------------------|----------------------|-----------------------------------------------------------------------|
| Battery Chemistry                              |                      | LiFePO <sub>4</sub>                                                   |
| Capacity ( Ah )                                |                      | 100                                                                   |
| Scalability                                    |                      | Max. 64 pcs pack (327kWh) in parallel (Max. 32 pcs no external setup) |
| Nominal Voltage ( V )                          |                      | 51.2                                                                  |
| Operating Voltage ( V )                        |                      | 43.2 ~ 57.6                                                           |
| Nominal Energy ( kWh )                         |                      | 5.12                                                                  |
| Usable Energy ( kWh ) <sup>1</sup>             |                      | 4.6                                                                   |
| Charge / Discharge <sup>2</sup><br>Current (A) | Recommend            | 50                                                                    |
|                                                | Max.                 | 100                                                                   |
|                                                | Peak ( 2mins, 25°C ) | 150                                                                   |

### Other Parameter

|                              |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| Recommend Depth of Discharge | 90%                                                                                        |
| Dimension ( W × H × D, mm )  | 440*133*540                                                                                |
| Weight Approximate (kg)      | 45                                                                                         |
| Master LED Indicator         | 5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting)                                 |
| IP Rating of Enclosure       | IP20                                                                                       |
| Operating Temperature        | Charge: 0°C~55°C (Optional heating: -20°C~55°C) , Discharge: -20°C~55°C                    |
| Storage Temperature          | 0°C~35°C                                                                                   |
| Humidity                     | 5% ~ 95%                                                                                   |
| Altitude                     | ≤2000m                                                                                     |
| Cycle Life                   | ≥6000(25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)                                                    |
| Installation                 | Wall-Mounted, Floor-Mounted, Rack-Mounted (19-inch standard cabinet, cabinet depth ≥600mm) |
| Communication Port           | CAN2.0, RS485                                                                              |
| Warranty Period <sup>3</sup> | 10 years                                                                                   |
| Energy Throughput            | 16MWh@70%EOL                                                                               |
| Certification                | UN38.3, IEC62619, CE,UK,VDE2510-50,CEI 0-21,FCC, UL1973, UL9540A                           |

### Compatible

Sol-Ark 12K/ 15K / 18K-2P inverters, Hoymiles HYS inverter series.

1. DC Usable Energy, test conditions : 90% DOD, 0.5°C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. Conditions apply, refer to Deye Warranty Letter.



## Commercial & Residential Hybrid Inverters

# C&I Hybrid Inverter

## Commercial Hybrid (30K-208V / 60K-480V)

| Model                                                              | 30K-3P-208V                                                                                                                                     | 60K-3P-480V |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Input Data (PV)                                                    |                                                                                                                                                 |             |
| Max. Allowed PV Power (STC)                                        | 39,000W                                                                                                                                         | 78,000W     |
| MPPT Voltage Range                                                 | 150-500V                                                                                                                                        | 150-850V    |
| Startup Voltage                                                    | 180V                                                                                                                                            |             |
| Max. Input Voltage                                                 | 550V                                                                                                                                            | 1,000V      |
| Max. operating input current per MPPT                              | 36A                                                                                                                                             |             |
| Max. short circuit current per MPPT                                | 55A                                                                                                                                             |             |
| No. of MPP Trackers                                                | 4                                                                                                                                               |             |
| No. of PV Strings per MPPT                                         | 2                                                                                                                                               |             |
| Max. AC Coupled Input Power                                        | 30,000W                                                                                                                                         | 60,000W     |
| Output Data (AC)                                                   |                                                                                                                                                 |             |
| Nominal AC Voltage (3Φ)                                            | 120/208V                                                                                                                                        | 277/480V    |
| Grid Frequency                                                     | 50 / 60Hz                                                                                                                                       |             |
| Real Power, max continuous (3Φ)                                    | 30,000W                                                                                                                                         | 60,000W     |
| Max. Output Current                                                | 83.4A                                                                                                                                           | 72.3A       |
| Peak Apparent Power (10s, off-grid, 3Φ)                            | 45,000VA                                                                                                                                        | 90,000VA    |
| Max. Grid Passthrough Current (10min)                              | 200A                                                                                                                                            |             |
| Continuous Grid Passthrough Current                                | 180A                                                                                                                                            |             |
| Power Factor Output Range                                          | +/- 0.8 adjustable                                                                                                                              |             |
| Backup Transfer Time                                               | 5ms (adjustable)                                                                                                                                |             |
| CEC Efficiency                                                     | 96.5%                                                                                                                                           |             |
| Max Efficiency                                                     | 97.5%                                                                                                                                           |             |
| Design (DC to AC)                                                  | Transformerless DC                                                                                                                              |             |
| Stackable                                                          | Up to 10 in parallel                                                                                                                            |             |
| Battery Input Data (DC)                                            |                                                                                                                                                 |             |
| Battery Chemistry                                                  | Lithium iron phosphate                                                                                                                          |             |
| No. of Battery Inputs                                              | 2                                                                                                                                               |             |
| Battery Input Terminal Rating                                      | 50A                                                                                                                                             |             |
| Nominal DC Voltage                                                 | ≥ 300V                                                                                                                                          | ≥ 600V      |
| Operating Voltage Range                                            | 160 - 800V                                                                                                                                      |             |
| Battery Capacity Range                                             | 50 — 9900Ah                                                                                                                                     |             |
| Max. Battery Charge / Discharge Current                            | 100A (50A per input)                                                                                                                            |             |
| Charge Controller Type                                             | 3-Stage with Equalization                                                                                                                       |             |
| Grid to Battery Charging Efficiency                                | 96.0%                                                                                                                                           |             |
| Automatic Generator Start (AGS)                                    | 2 Wire Start - Integrated                                                                                                                       |             |
| BMS Communication                                                  | CANBus & RS485                                                                                                                                  |             |
| General Data                                                       |                                                                                                                                                 |             |
| Dimensions (H x W x D)                                             | 894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in)                                                                                                      |             |
| Weight                                                             | 80 Kg / 176 lb.                                                                                                                                 |             |
| Enclosure                                                          | IP65 / NEMA 3R                                                                                                                                  |             |
| Ambient Temperature                                                | -40°C – 60°C, >45°C Derating                                                                                                                    |             |
| Noise                                                              | < 30 dB @ 25°C (77°F)                                                                                                                           |             |
| Idle Consumption - No Load                                         | 60W                                                                                                                                             |             |
| Communication and Monitoring                                       | Wi-Fi & LAN Hardware Included                                                                                                                   |             |
| Warranty                                                           | 10 Years (15 Years)                                                                                                                             |             |
| Category                                                           |                                                                                                                                                 |             |
| Certifications and Listings<br>(Grid Support Interactive Inverter) | UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16,<br>IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0),<br>UL 1741 CRD-PCS, UL1699B, CEC, SGIP |             |
| PV DC Disconnect Switch — NEC 240.15                               | Integrated                                                                                                                                      |             |
| Ground Fault Detection — NEC 690.5                                 | Integrated                                                                                                                                      |             |
| PV Rapid Shutdown Control — NEC 690.12                             | Integrated                                                                                                                                      |             |
| PV Arc Fault Detection — NEC 690.11                                | Integrated                                                                                                                                      |             |
| PV Input Lightning Protection                                      | Integrated                                                                                                                                      |             |
| PV String Input Reverse Polarity Protection                        | Integrated                                                                                                                                      |             |
| Surge Protection                                                   | DC Type II / AC Type III                                                                                                                        |             |

# Residential Hybrid Inverter

## Residential Hybrid (15K-2P-N)

| Model                                              | Limitless 15K-LV                                                                           |
|----------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Input Data (PV)</b>                             |                                                                                            |
| Max. Allowed PV Power (STC)                        | 19,500W                                                                                    |
| Rated MPPT Operating Voltage Range                 | 175 - 425V                                                                                 |
| MPPT Voltage Range                                 | 150 - 500V                                                                                 |
| Startup Voltage                                    | 125V                                                                                       |
| Max. DC Input Voltage                              | 500V                                                                                       |
| Max. Operating Input Current per MPPT              | 26A                                                                                        |
| Max. Short Circuit Current per MPPT                | 44A                                                                                        |
| No. of MPP Trackers                                | 3                                                                                          |
| No. of PV Strings per MPPT                         | 2                                                                                          |
| Max. AC Coupled Input                              | 19,200W                                                                                    |
| <b>Output Data (AC)</b>                            |                                                                                            |
| Nominal AC Voltage                                 | 120/240V, 120/208V, 220V                                                                   |
| Grid Frequency                                     | 50 / 60Hz                                                                                  |
| Real Power, max continuous                         | 15,000W                                                                                    |
| Max. Output Current                                | 62.5A                                                                                      |
| Real Power, max continuous (batteries only, no PV) | 12,000W (50A @ 240V)                                                                       |
| Peak Apparent Power (10s, off-grid)                | 24,000VA @ 240V                                                                            |
| Peak Apparent Power (100ms, off-grid)              | 30,000VA @ 240V                                                                            |
| Max Output Fault Current (5s)                      | 94A with PV, 75A (batteries only)                                                          |
| Max Output Fault Current (100ms)                   | 120A                                                                                       |
| Max. Grid Passthrough Current                      | 200A                                                                                       |
| Power Factor Output Range                          | +/- 0.9 adjustable                                                                         |
| Backup Transfer Time                               | 5ms                                                                                        |
| CEC Efficiency                                     | 96.5%                                                                                      |
| Max Efficiency                                     | 97.5%                                                                                      |
| Design (DC to AC)                                  | Transformerless DC                                                                         |
| Stackable                                          | Up to 12 in parallel                                                                       |
| <b>Battery Input Data (DC)</b>                     |                                                                                            |
| Battery Technologies                               | Lithium / Lead Acid                                                                        |
| Nominal DC Voltage                                 | 48V                                                                                        |
| Operating Voltage Range                            | 43 - 63V                                                                                   |
| Capacity                                           | 50 — 9900Ah                                                                                |
| Max. Battery Charge / Discharge Current            | 275A                                                                                       |
| Battery Disconnecting Means                        | 200A/pole x 2                                                                              |
| Charging Controller                                | 3-Stage with Equalization                                                                  |
| Grid to Battery Charging Efficiency                | 96.0%                                                                                      |
| External Battery Temperature Sensor (BTS)          | Included                                                                                   |
| Automatic Generator Start (AGS)                    | 2 Wire Start - Integrated                                                                  |
| BMS Communication                                  | CANBus & RS485 MODBUS                                                                      |
| <b>General Data</b>                                |                                                                                            |
| Dimensions (H x W x D)                             | 807 x 494 x 306 mm (31.8 x 19.4 x 12 in)                                                   |
| Weight                                             | 61.2 Kg / 135 lb.                                                                          |
| Enclosure                                          | IP65 / NEMA 3R                                                                             |
| Ambient Temperature                                | -25~55°C, > 45°C Derating                                                                  |
| Noise                                              | < 30 dB @ 25°C (77°F)                                                                      |
| Idle Consumption - No Load                         | 90W                                                                                        |
| Communication and Monitoring                       | Wi-Fi & LAN Hardware Included                                                              |
| Standard Warranty                                  | 10 Years                                                                                   |
| <b>Protection and Certifications</b>               |                                                                                            |
| Certifications and Listings                        | UL1741-2010/2018, IEEE1547a 2003/2014, FCC 15 Class B, UL1741SB, CA Rule 21, HECO Rule 14H |
| PV DC Disconnect Switch — NEC 240.15               | Integrated                                                                                 |
| Ground Fault Detection — NEC 690.5                 | Integrated                                                                                 |
| PV Rapid Shutdown Control — NEC 690.12             | Integrated                                                                                 |
| PV Arc Fault Detection — NEC 690.11                | Integrated                                                                                 |
| PV Input Lightning Protection                      | Integrated                                                                                 |
| PV String Input Reverse Polarity Protection        | Integrated                                                                                 |
| AC Output Breaker - 200A                           | Integrated                                                                                 |
| Surge Protection                                   | DC Type II / AC Type II                                                                    |

# Residential Hybrid Inverter

## Residential Hybrid (18K-2P-N)

| Model                                         | Limitless 18K-2P-LV                                                                                                                                          |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input Data (PV)</b>                        |                                                                                                                                                              |
| Max. Supported PV Power                       | 32,400W                                                                                                                                                      |
| Max. Usable PV Power                          | 28,800W                                                                                                                                                      |
| Max. AC Coupled Input                         | 28,800W                                                                                                                                                      |
| Rated MPPT Operating Voltage Range            | 150 - 425V                                                                                                                                                   |
| Startup Voltage                               | 125V                                                                                                                                                         |
| Max. DC Input Voltage                         | 500V                                                                                                                                                         |
| Max. Operating Input Current per MPPT         | 36A                                                                                                                                                          |
| Max. Short Circuit Current per MPPT           | 54A                                                                                                                                                          |
| No. of MPPT/Inputs                            | 3/2                                                                                                                                                          |
| <b>Output Data (AC)</b>                       |                                                                                                                                                              |
| Continuous Power                              | 18,000W                                                                                                                                                      |
| Surge Power (10s)                             | 36,000W                                                                                                                                                      |
| Grid Voltage/ Frequency                       | 120/240; 208 0.88Un<U<1.1Un / 55-65                                                                                                                          |
| Max. Output Current                           | 75A                                                                                                                                                          |
| Max. Grid Passthrough Current                 | 200A                                                                                                                                                         |
| Max Efficiency                                | 97.6%                                                                                                                                                        |
| Stackable                                     | Yes; Max 12                                                                                                                                                  |
| <b>Battery Input Data (DC)</b>                |                                                                                                                                                              |
| Nominal DC Voltage                            | 48V                                                                                                                                                          |
| Operating Voltage Range                       | 41 - 63V                                                                                                                                                     |
| Capacity                                      | 50 — 9900Ah                                                                                                                                                  |
| Continuous Battery Charge / Discharge Current | 350A                                                                                                                                                         |
| BMS Communication                             | CANBus & RS485 MODBUS                                                                                                                                        |
| <b>General Data</b>                           |                                                                                                                                                              |
| Dimensions (H x W x D mm)                     | 863 x 464 x 282 mm                                                                                                                                           |
| Weight                                        | 137 lb / 62.14 Kg                                                                                                                                            |
| Enclosure                                     | IP65 / NEMA 3R                                                                                                                                               |
| Ambient Temperature                           | -40~+60°C, > 45°C Derating                                                                                                                                   |
| Operating Altitude                            | 3000 m (9843 ft)                                                                                                                                             |
| Noise                                         | < 50 dB                                                                                                                                                      |
| Standard Warranty                             | 10 Years                                                                                                                                                     |
| <b>Protection and Certifications</b>          |                                                                                                                                                              |
| Certifications and Listings                   | UL1741 3rd SB, UL1741 CRD-PCS, IEEE1547-2018 and interoperability using IEEE2030.5, Hawaiian Electric SRD V2.0, UL1699B PVDC AFCI, UL1998, CSA C22.2 No. 107 |
| PV DC Disconnect Switch                       | Integrated                                                                                                                                                   |
| Ground Fault Detection — NEC 690.5            | Integrated                                                                                                                                                   |
| AC Output Breaker - 200A                      | Integrated                                                                                                                                                   |
| Surge Protection                              | DC Type II / AC Type II                                                                                                                                      |



**SRNE**

**HEBP Pro Series Hybrid Inverter**

# HEBP Series

## Residential Hybrid (12KW AC 48V DC)

| Model                                 | HEBP48120U240-Pro                                            |
|---------------------------------------|--------------------------------------------------------------|
| <b>Inverter Output</b>                |                                                              |
| Rated Output Power                    | @240V 12000W<br>@208V 10400W                                 |
| Max. Peak Power                       | 1.5 times rated power                                        |
| Rated Output Voltage                  | 120/240Vac (Split-phase) ; 120/208V (Three-phase)            |
| Output Voltage Error                  | 50A                                                          |
| Load Capacity of Motors               | 6HP                                                          |
| Rated AC Frequency                    | 50/60Hz                                                      |
| Waveform                              | Pure Sine Wave                                               |
| Parallel Capacity                     | 1 to 6 units (2 or more units can form a three-phase output) |
| <b>Battery</b>                        |                                                              |
| Battery Type                          | Li-ion / Lead-Acid / User Defined                            |
| Rated Battery Voltage                 | 48Vdc                                                        |
| Battery Voltage Range                 | 40 ~ 60Vdc                                                   |
| Max. Grid Charging Current            | 200A                                                         |
| Max. Generator Charging Current       | 90A                                                          |
| Max. Hybrid Charging Current          | 240A                                                         |
| <b>PV Input</b>                       |                                                              |
| No. Of MPPT                           | 2                                                            |
| Max. PV Array Power                   | 9000W / 9000W                                                |
| Max. Input Current                    | 32A+32A                                                      |
| Short-Circuit Current Isc             | 40A+40A                                                      |
| Max. Voltage of Open Current          | 550Vdc+550Vdc                                                |
| MPPT Voltage Range                    | 125 ~ 450Vdc / 125 ~ 450Vdc                                  |
| <b>Grid / Generator Input</b>         |                                                              |
| Input Voltage Range                   | 90 ~ 140Vac                                                  |
| Frequency Range                       | 50/60Hz                                                      |
| Maximum Bypass Overload Phase Current | 200A (5S)                                                    |
| Continuous Grid Passthrough Current   | 180A                                                         |
| <b>Efficiency</b>                     |                                                              |
| MPPT Tracking Efficiency              | 99.9%                                                        |
| Max Efficiency                        | 97.5%                                                        |
| CEC Efficiency                        | 96.5%                                                        |
| <b>Communication</b>                  |                                                              |
| Communication Port                    | RS485 / CAN / USB / Dry contact                              |
| External Modules (Optional)           | Wi-Fi / GPRS                                                 |
| <b>Basic Data</b>                     |                                                              |
| Dimensions                            | 840*440*260mm                                                |
| Weight                                | 48kg                                                         |
| Protection Degree                     | IP65                                                         |
| Operating Temperature Range           | -25°C~60°C, >45°C derated                                    |
| Noise                                 | <60dB                                                        |
| Self-consumption                      | <100W                                                        |
| Cooling Method                        | Heat sink + intelligent fan cooling                          |
| <b>Certified Specifications</b>       |                                                              |
| Safety Standards                      | UL1741&IEEE1547.1-2020, CEC, RULE 21, HECO                   |
| EMC                                   | FCC 15 class B                                               |
| RoHS                                  | Yes                                                          |



## HYS-LV-USG1 Series

### Split-phase Hybrid Inverter

| Model                                 | HYS-7.6LV-USG1        | HYS-9.6LV-USG1 | HYS-11.5LV-USG1 |
|---------------------------------------|-----------------------|----------------|-----------------|
| Battery                               |                       |                |                 |
| Battery type                          | Li-ion/Lead-acid      |                |                 |
| Battery voltage range (V)             | 40-60                 |                |                 |
| Max. charge/discharge current (A)     | 160/160               | 200/200        | 200/200         |
| Max. charge/discharge power (W)       | 7600/7600             | 9600/9600      | 9600/9600       |
| Charging strategy for Li-ion battery  | Self-adaption to BMS  |                |                 |
| Charging curve                        | 3 Stages/Equalization |                |                 |
| External temperature sensor           | Optional              |                |                 |
| Communication                         | CAN                   |                |                 |
| PV Input                              |                       |                |                 |
| Recommended max. PV power (W)         | 11520                 | 14400          | 14400           |
| Max. input voltage (V)                | 550                   |                |                 |
| Rated voltage (V)                     | 380                   |                |                 |
| Start-up voltage (V)                  | 150                   |                |                 |
| MPPT voltage range (V)                | 125-500               |                |                 |
| Max. input current (A)                | 32/32                 |                |                 |
| Max. short circuit current (A)        | 40/40                 |                |                 |
| MPPT number/Max. input strings number | 2/4                   |                |                 |

## HYS-LV-USG1 Continued

| Model                                       | HYS-7.6LV-USG1                                                            | HYS-9.6LV-USG1 | HYS-11.5LV-USG1 |
|---------------------------------------------|---------------------------------------------------------------------------|----------------|-----------------|
| AC Input and Output (On-grid)               |                                                                           |                |                 |
| Rated output power (W)                      | 7680                                                                      | 9600           | 11520           |
| Max. output apparent power (VA)             | 7680                                                                      | 9600           | 11520           |
| Max. input power (W)                        | 15360                                                                     | 19200          | 19200           |
| Rated AC output voltage/Range (V)           | 240, 211-264/208, 183-229                                                 |                |                 |
| Rated grid frequency (Hz)                   | 60                                                                        |                |                 |
| Max. output current (A)                     | 32                                                                        | 40             | 48              |
| Max. input current (A)                      | 64                                                                        | 80             | 80              |
| Power factor                                | >0.99 (0.8 leading ... 0.8 lagging)                                       |                |                 |
| THDi (@rated output)                        | <3%                                                                       |                |                 |
| AC Output (Off-grid)                        |                                                                           |                |                 |
| Rated output power (W)                      | 7680                                                                      | 9600           | 9600            |
| Max. output apparent power (VA)             | 15360, 10s                                                                | 19200, 10s     | 19200, 10s      |
| Back-up switch time (ms)                    | <40                                                                       |                |                 |
| Rated output voltage (V)                    | 120/240 (split phase), 120/208                                            |                |                 |
| Rated output frequency (Hz)                 | 60                                                                        |                |                 |
| Max. continuous output current (A)          | 32                                                                        | 40             | 40              |
| THDv (@linear load)                         | <3%                                                                       |                |                 |
| Efficiency                                  |                                                                           |                |                 |
| MPPT efficiency                             | 99.9%                                                                     | 99.9%          | 99.9%           |
| Max. efficiency                             | 97.6%                                                                     | 97.6%          | 97.6%           |
| CEC efficiency                              | 97.0%                                                                     | 97.0%          | 97.0%           |
| Max. battery discharge to AC efficiency     | 95.0%                                                                     | 95.0%          | 95.0%           |
| Protection                                  |                                                                           |                |                 |
| Anti-islanding protection                   | Integrated                                                                |                |                 |
| PV arc fault detection                      | Integrated                                                                |                |                 |
| PV string input reverse polarity protection | Integrated                                                                |                |                 |
| Compliant MLRSD products                    | Integrated                                                                |                |                 |
| Insulation resistor detection               | Integrated                                                                |                |                 |
| Residual current monitoring unit            | Integrated                                                                |                |                 |
| AC over current protection                  | Integrated                                                                |                |                 |
| AC short current protection                 | Integrated                                                                |                |                 |
| AC overvoltage and undervoltage protection  | Integrated                                                                |                |                 |
| Surge protection                            | DC Type II/AC Type III                                                    |                |                 |
| General                                     |                                                                           |                |                 |
| Dimensions (W × H × D)                      | 19.8 × 29.1 × 7.95 inch (502 × 740 × 202 mm)                              |                |                 |
| Weight                                      | 90.4 lbs (41 kg)                                                          |                |                 |
| Mounting                                    | Wall mounting                                                             |                |                 |
| Operating temperature                       | -13°F to +149°F (>113°F, Derating)/-25°F to +65°F (>45°F, Derating)       |                |                 |
| Relative humidity                           | 0-95%, no condensing                                                      |                |                 |
| Cooling                                     | Natural convection                                                        |                |                 |
| Topology (Solar/Battery)                    | Transformerless/High-frequency isolation                                  |                |                 |
| Altitude                                    | ≤6562 ft (2000 m)                                                         |                |                 |
| Protection degree                           | Type 4X                                                                   |                |                 |
| Noise (dB)                                  | <40                                                                       |                |                 |
| User interface                              | LED, App                                                                  |                |                 |
| Digital input/output                        | 1 × DI, 2 × DO                                                            |                |                 |
| Max. parallel                               | 10                                                                        |                |                 |
| Communication                               | RS485, optional: Wi-Fi/Ethernet/4G                                        |                |                 |
| Warranty                                    | 10 Years                                                                  |                |                 |
| Certifications and Standards                |                                                                           |                |                 |
| Grid connection standard                    | IEEE 1547-2018, IEEE 1547.1-2020, SRD2.0                                  |                |                 |
| Safety/EMC standard                         | UL 1741, CSA C22.2 No.107.1, UL 1741 CRD, UL 1741 SB, FCC Part 15 Class B |                |                 |
| AFCI                                        | UL 1699B                                                                  |                |                 |
| Software approval                           | UL 1998                                                                   |                |                 |
| Compatible                                  |                                                                           |                |                 |
| Deye RW-F and SE-G Series batteries         |                                                                           |                |                 |



## ES-US Series Hybrid inverter (HV)



**Model** GW11K4-ES-US20

### Battery Input

|                                         |          |
|-----------------------------------------|----------|
| Battery Type                            | Li-Ion   |
| Nominal Battery Voltage (V)             | 300      |
| Battery Voltage Range (V)               | 80 ~ 495 |
| Start-up Voltage (V)                    | 80       |
| Number of Battery Input                 | 1        |
| Max. Continuous Charging Current (A)    | 50       |
| Max. Continuous Discharging Current (A) | 50       |
| Max. Charging Power (W)                 | 11400    |
| Max. Discharging Power (W)              | 11970    |

### PV Input

|                                         |          |
|-----------------------------------------|----------|
| Max. Input Power (W)                    | 17100    |
| Max. Input Voltage (V)                  | 600      |
| MPPT Operating Voltage Range (V)        | 50 ~ 550 |
| Start-up Voltage (V)                    | 60       |
| Max. Input Current per MPPT (A)         | 16       |
| Max. Short Circuit Current per MPPT (A) | 23.4     |
| Number of MPP Trackers                  | 4        |

### AC Output (On-grid)

|                                                      |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| Nominal Output Power (W)                             | 11400                                           |
| Nominal Output Voltage (V)                           | 240                                             |
| Output Voltage Range (V)                             | 211 ~ 264                                       |
| Nominal AC Grid Frequency (Hz)                       | 50 / 60                                         |
| AC Grid Frequency Range (Hz)                         | 58.5 ~ 61.2                                     |
| Max. AC Current Output to Utility Grid (A)           | 47.5                                            |
| Max. AC Current From Utility Grid With EV Charger(A) | 47.5                                            |
| Power Factor                                         | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |
| Max. Total Harmonic Distortion                       | <3%                                             |

### AC Output (Back-up)

|                                           |                     |
|-------------------------------------------|---------------------|
| Back-up Nominal Apparent Power (VA)       | 11400               |
| Max. Output Apparent Power with Grid (VA) | 11400 (17280@10sec) |
| Max. Output Current (A)                   | 47.5                |
| Nominal Output Voltage (V)                | 240 / 120           |
| Nominal Output Frequency (Hz)             | 60                  |
| Output THDv (@Linear Load)                | <3%                 |

## ES-US Series Continued

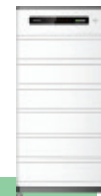
| Model                               | GW11K4-ES-US20                                                      |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Efficiency</b>                   |                                                                     |
| Max. Efficiency                     | 97.6%                                                               |
| <b>Protection</b>                   |                                                                     |
| PV String Current Monitoring        | Integrated                                                          |
| PV Insulation Resistance Detection  | Integrated                                                          |
| Residual Current Monitoring         | Integrated                                                          |
| PV Reverse Polarity Protection      | Integrated                                                          |
| Battery Reverse Polarity Protection | Integrated                                                          |
| Anti-islanding Protection           | Integrated                                                          |
| AC Overcurrent Protection           | Integrated                                                          |
| AC Short Circuit Protection         | Integrated                                                          |
| AC Overvoltage Protection           | Integrated                                                          |
| DC Switch                           | Integrated                                                          |
| DC Surge Protection                 | Type II                                                             |
| AC Surge Protection                 | Type III                                                            |
| AFCI                                | Integrated                                                          |
| Battery Arc Fault Detection         | Integrated                                                          |
| Rapid Shutdown                      | Integrated                                                          |
| <b>General Data</b>                 |                                                                     |
| Operating Temperature Range         | -31°F ~ +140°F (-35°C ~ +60°C)                                      |
| Relative Humidity                   | 0 ~ 95%                                                             |
| Max. Operating Altitude             | 9842ft (3000m)                                                      |
| Cooling Method                      | Natural Convection                                                  |
| User Interface                      | LED, APP                                                            |
| Communication with BMS              | RS485, CAN                                                          |
| Communication with Meter            | RS485                                                               |
| Communication with Portal           | LAN (4G Optional) + Bluetooth + WiFi                                |
| Weight (lb)                         | 84.9                                                                |
| Dimension (W × H × D)               | 19.1 × 35.4 × 7.5 in (485 × 900 × 191.5 mm)                         |
| Noise Emission (dB)                 | <40                                                                 |
| Topology                            | Non-isolated                                                        |
| Self-consumption at Night (W)       | <20                                                                 |
| Ingress Protection Rating           | NEMA Type 4X                                                        |
| Mounting Method                     | Wall Mounted                                                        |
| <b>Certification</b>                |                                                                     |
| Grid Interconnection                | UL1741 SB, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1 |
| Safety Regulations                  | UL 1741, CSA 22.2 No. 107.1, UL 1998, UL1699B                       |
| Electromagnetic Compatibility       | FCC part15 CLASS B                                                  |

## EV Charger (Optional) Specifications



| Model                                        |                                                       |
|----------------------------------------------|-------------------------------------------------------|
| <b>AC Output Data</b>                        |                                                       |
| Charging Level                               | AC Level 2                                            |
| Nominal AC Power Output (W)                  | 9600                                                  |
| Nominal AC Frequency (Hz)                    | 60                                                    |
| Maximum Continuous Output Current (A)        | 40                                                    |
| EV Charger Configuration & Indicator         | APP (WiFi, Bluetooth)                                 |
| EV Charger Cable Length                      | 7.6m                                                  |
| EV Charger Cable Operating Temperature Range | -31°F ~ +140°F (-35°C ~ +60°C)                        |
| Operating Altitude                           | ≤ 9842ft (3000m)                                      |
| Protection Degree                            | NEMA Type 4X                                          |
| <b>Certifications &amp; Standards</b>        |                                                       |
| Safety Regulation                            | UL2594, UL2231-1, UL2231-2, NEC Article 625 compliant |
| EV Charger                                   | SAE J1772                                             |

## FH-US Series High voltage battery



| Model                             | LX F9.6-30                                                                     | LX F12.8-30                                     | LX F16.0-30                                      | LX F19.2-30                                      |
|-----------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Usable Energy (kWh)               | 9.6                                                                            | 12.8                                            | 16.0                                             | 19.2                                             |
| Battery Module                    | LX F3.2-30: 64V 3.2kWh                                                         |                                                 |                                                  |                                                  |
| Number of Modules                 | 3                                                                              | 4                                               | 5                                                | 6                                                |
| Cell Type                         | LFP (LiFePO <sub>4</sub> )                                                     |                                                 |                                                  |                                                  |
| Nominal Voltage (V)               | 192                                                                            | 256                                             | 320                                              | 384                                              |
| Operating Voltage Range (V)       | 171 ~ 216                                                                      | 228 ~ 288                                       | 285 ~ 360                                        | 342 ~ 432                                        |
| Nominal Dis- / Charge Current (A) | 35                                                                             |                                                 |                                                  |                                                  |
| Nominal Power (kW)                | 6.72                                                                           | 8.96                                            | 11.20                                            | 13.44                                            |
| Operating Temperature Range (°F)  | Charge: +32°F ~ +122°F (0°C ~ +50°C); Discharge: +5°F ~ +122°F (-15°C ~ +50°C) |                                                 |                                                  |                                                  |
| Relative Humidity                 | ≤95%                                                                           |                                                 |                                                  |                                                  |
| Max. Operating Altitude (Ft)      | ≤9842ft (3000m)                                                                |                                                 |                                                  |                                                  |
| Communication                     | CAN                                                                            |                                                 |                                                  |                                                  |
| Battery Module Weight             | 83.8 ± 4.4 lb, 38 ± 2kg                                                        |                                                 |                                                  |                                                  |
| PCU Weight                        | 37.5 ± 2.2 lb, 17 ± 1kg                                                        |                                                 |                                                  |                                                  |
| System Weight                     | 300.9lb (136.5kg)                                                              | 384.7lb (174.5kg)                               | 468.5lb (212.5kg)                                | 552.3lb (250.5kg)                                |
| Dimensions (W × H × D)            | 23.6 × 29.5 × 15 in<br>(599.4 × 749.3 × 381 mm)                                | 23.6 × 35.6 × 15 in<br>(599.4 × 904.2 × 381 mm) | 23.6 × 41.7 × 15 in<br>(599.4 × 1059.2 × 381 mm) | 23.6 × 47.8 × 15 in<br>(599.4 × 1214.1 × 381 mm) |
| Ingress Protection Rating         | IP65                                                                           |                                                 |                                                  |                                                  |
| Mounting Method                   | Ground-Mounted                                                                 |                                                 |                                                  |                                                  |
| Standard and Certification        | Safety                                                                         | UL1973, UL9540A-2019                            |                                                  |                                                  |
|                                   | EMC                                                                            | FCC part 15                                     |                                                  |                                                  |
|                                   | Transportation                                                                 | UN38.3                                          |                                                  |                                                  |

### Smart Control for Smart Energy

Lynx Home FH-US Series accommodates smart remote monitoring of the whole energy storage system and remote update. It can also automatically reboot if the supply voltage is high enough again after an undervoltage fault occurs. Take smart control of your smart energy.



Remote diagnosis & update



Auto reboot after undervoltage



# ABD Series Automatic Backup Device



| Model | ABD200-40<br>-US10 | ABD200-63<br>-US10 | ABD100-40<br>-US10 | ABD100-63<br>-US10 |
|-------|--------------------|--------------------|--------------------|--------------------|
|-------|--------------------|--------------------|--------------------|--------------------|

## Electrical Data

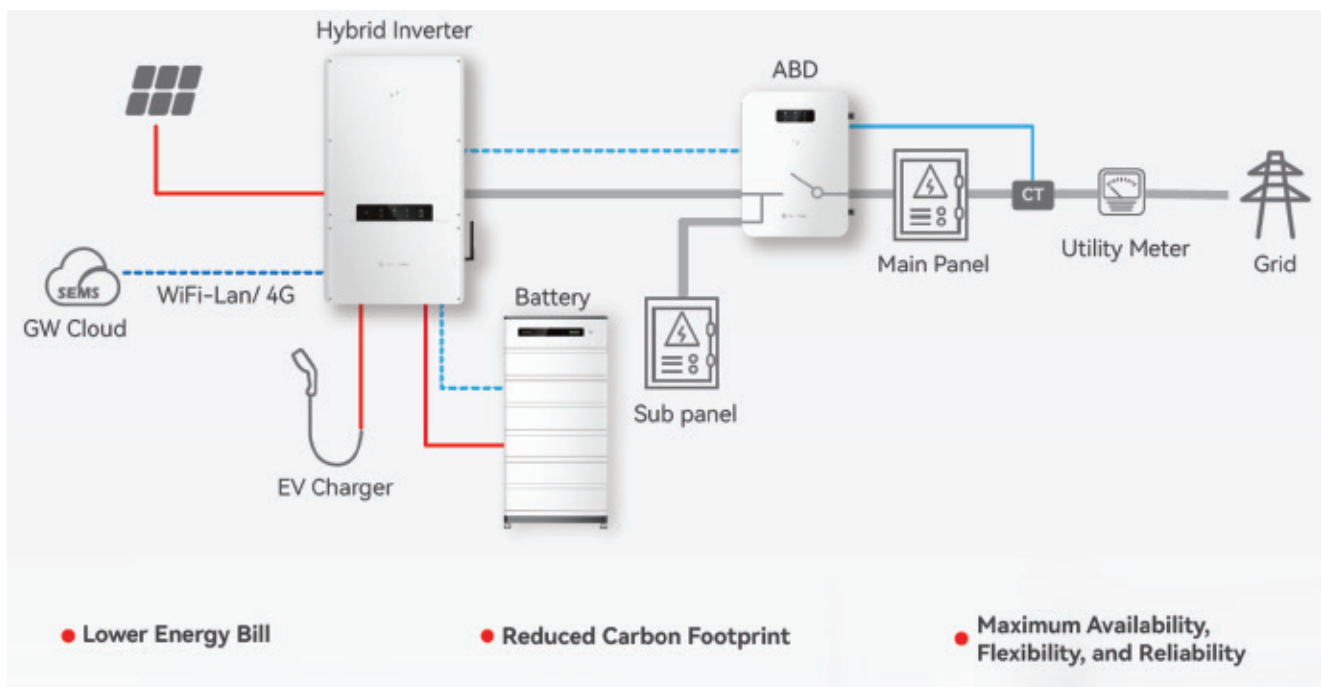
|                                                                   |             |      |      |      |
|-------------------------------------------------------------------|-------------|------|------|------|
| Nominal Output Voltage (V)                                        | 240         |      |      |      |
| Output Voltage Range (V)                                          | 211 ~ 264   |      |      |      |
| Feed-in Type                                                      | Split Phase |      |      |      |
| Nominal AC Voltage of Line Conductor (V)                          | 120 / 240   |      |      |      |
| Nominal AC Frequency (Hz)                                         | 60          |      |      |      |
| AC Frequency Range (Hz)                                           | 58.5 ~ 61.2 |      |      |      |
| Current Rating (from Grid)(A)                                     | 200         |      |      |      |
| Max. Continuous Current from Inverter (A)                         | 32.0        | 47.5 | 32.0 | 47.5 |
| Maximum Overcurrent Protection of Main Breaker (A)*               | 200         | 200  | 100  | 100  |
| Maximum Overcurrent Protection of Circuit Breaker of Inverter (A) | 40          | 63   | 40   | 63   |

## General Data

|                             |                                         |  |  |  |
|-----------------------------|-----------------------------------------|--|--|--|
| Operating Temperature Range | -13°F ~ 140°F (-25°C ~ 60°C)            |  |  |  |
| Max. Operating Altitude     | 9842ft (3000m)                          |  |  |  |
| Cooling Method              | Natural Convection                      |  |  |  |
| Communication with Inverter | RS485                                   |  |  |  |
| Weight                      | 26lb (12kg)                             |  |  |  |
| Dimension (W × H × D)       | 17.7 × 24 × 5.9 in (450 × 610 × 150 mm) |  |  |  |
| Mounting Method             | Wall Mounted                            |  |  |  |
| Ingress Protection Rating   | Type 3R, IP44                           |  |  |  |

## Certification & Standards

|                   |                           |
|-------------------|---------------------------|
| Safety Regulation | UL1741, CSA22.2 NO.107-01 |
| EMC               | FCC part15 CLASS B        |





Ambient Lighting



Convenient Payment Credit Card, No Hassle



Status Indicator Lights



Illuminated Logo Design



Motion-Sensing Night Light



Optional Cable Management System



Optional Security Camera

Up to **45%** Saving

TAA/BABA compliant supply solutions, aviod high tariffs

### Easy Options



Ethernet(LAN)



Bluetooth



Wi-Fi



4G



OCPP1.6J



RFID



Credit Card



Exact Billing



ISO15118

MORE+.....

## ATG-RSEVC-2 EV CHARGER

# Dual Port Pedestal

## Commercial EV Charger

| Model                   | RSEVC-240V/48A*2-US-RGWB/C-WHO2                                                                                                                                                                                                                                                 | RSEVC-240V/80A*2-US-RGWB/C-WHO2 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Product Type            | All in one AC Charging Station                                                                                                                                                                                                                                                  |                                 |
| Input Voltage           | 208/240V AC, Single-phase                                                                                                                                                                                                                                                       |                                 |
| Input Frequency         | 50/60 Hz                                                                                                                                                                                                                                                                        |                                 |
| Output Voltage          | 208/240V AC                                                                                                                                                                                                                                                                     |                                 |
| Output Current          | 48A Max x2                                                                                                                                                                                                                                                                      | 80A Max x2                      |
| Maximum Power Output    | 11.5kW x2                                                                                                                                                                                                                                                                       | 19.2kW x2                       |
| Input Wire              | Hardwired                                                                                                                                                                                                                                                                       |                                 |
| Charging Connector Type | 2xSAE J1772(Default), NACS Tesla(Optional)                                                                                                                                                                                                                                      |                                 |
| Cable Length            | Cable Management,2x18FT/5.5m Standard (2x25FT/7.5m Optional)                                                                                                                                                                                                                    |                                 |
| Charging Modes          | Mode3                                                                                                                                                                                                                                                                           |                                 |
| Charging Protocols      | OCPP 1.6J                                                                                                                                                                                                                                                                       |                                 |
| Dimensions (H x W x D)  | 440mm*420mm*1800mm(17.3*16.5*70.9inch)                                                                                                                                                                                                                                          |                                 |
| Weight                  | 59.1lbs(26.8kg)                                                                                                                                                                                                                                                                 | 71.9lbs(32.6kg)                 |
| Enclosure Rating        | NEMA Type3, IK08                                                                                                                                                                                                                                                                |                                 |
| Operating Temperature   | -30°C to 50°C(-22°F to 122°F)                                                                                                                                                                                                                                                   |                                 |
| Operating Humidity      | <95% Non-condensing                                                                                                                                                                                                                                                             |                                 |
| Altitude                | Up to 2000m                                                                                                                                                                                                                                                                     |                                 |
| Protection Function     | Undercurrent Protection, Overcurrent Protection, Undervoltage Protection, Overvoltage Protection, Short Circuit Protection, Residual Current Device, Over Temperature Protection, Surge Protection, Ground Fault Protection, Control Pilot Fault Protection, Leakage Protection |                                 |
| Emergency Stop          | E-stop Button                                                                                                                                                                                                                                                                   |                                 |
| Communication Interface | 10.1Inch Touch Screen,WIFI/4G                                                                                                                                                                                                                                                   |                                 |
| Control Method          | RFID/NFC, POS, OCPP Platform                                                                                                                                                                                                                                                    |                                 |
| Mounting Type           | Floor Standing Installation                                                                                                                                                                                                                                                     |                                 |
| Compliance Standards    | ETL, FCC, Energy Star, CTEP compliance, ISO15118 compliance                                                                                                                                                                                                                     |                                 |
| Standards               | NEC625, UL817, UL991, UL2231, UL2251,UL2594, OCPP1.6J Compliance                                                                                                                                                                                                                |                                 |
| Warranty Period         | 2 years                                                                                                                                                                                                                                                                         |                                 |



The image shows a black, modular electric vehicle charging station (ATG-DCFC-RSEVC-2) in a park-like setting with trees and a car in the background. The station features a large 35-inch advertising display, a credit card reader, and two charging ports. It has a sleek, modern design with green ambient lighting accents.

- 
**Wide Voltage Input**
  - 200-1000V
  - Supports 208V commercial power, with no grid expansion
  - Rapid deployment for office and commercial charging
- 
**Modular Design**
  - Comply with the BABA or TAA requirements
  - Save up to 45% on tariffs
- 
**Plug & Charge**
  - ISO 15118 Compatibility
  - Enables seamless and automatic payments
- 
**35-Inch Independent Advertising Display**
  - Creates additional revenue streams
  - Supports OTA updates
  - Offers customizable screen size and content
- 
**Convenient Payment**
  - Integrated VPOS Credit Card Reader
  - Powered by Nayax for secure and convenient transactions
- 
**Automatic Cable Retraction System**
  - Designed for user convenience
  - Making charging easier for female and elderly drivers
- 
**Neon Ambient Lighting**
  - Enhances user experience and interaction with stylish illumination

**Easy Options**

|                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Ethernet(LAN)                                                                      | Bluetooth                                                                           | Wi-Fi                                                                               | 4G                                                                                  | OCPP1.6J                                                                            |
|  |  |  |  | MORE+.....                                                                          |
| RFID                                                                               | Credit Card                                                                         | Exact Billing                                                                       | ISO15118                                                                            |                                                                                     |

## ATG-DCFC-RSEVC-2

# Floor-mounted DC Fast Charger

## Commercial EV Charger

| Model                      | RSEVC-480V/240kW/2-US-RGE/C-BK01                                                                                                                                                                                                                                                |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type               | DC Fast Charging Station                                                                                                                                                                                                                                                        |
| Output Voltage             | 200-1000V DC                                                                                                                                                                                                                                                                    |
| Input Voltage              | 208/480V DC, 50/60 Hz                                                                                                                                                                                                                                                           |
| Max Input@208V             | 179A                                                                                                                                                                                                                                                                            |
| Max Input@480V             | 156A                                                                                                                                                                                                                                                                            |
| Output Current             | 100A-250A                                                                                                                                                                                                                                                                       |
| Maximum Power Output@208V  | 60kW                                                                                                                                                                                                                                                                            |
| Maximum Power Output@480v  | 120kW                                                                                                                                                                                                                                                                           |
| Input Wire                 | TN-S, L1+L2+L3+N+PE                                                                                                                                                                                                                                                             |
| Charging Connector Type    | CCS1                                                                                                                                                                                                                                                                            |
| Cable Length               | Cable Management,2x18FT/5.5m Standard (2x25FT/7.5m Optional)                                                                                                                                                                                                                    |
| Charging Modes             | Mode3                                                                                                                                                                                                                                                                           |
| Charging Protocols         | OCPP 1.6, ISO 15118                                                                                                                                                                                                                                                             |
| Dimensions (H x W x D)     | 1000mm*805mm*2103mm                                                                                                                                                                                                                                                             |
| Weight                     | 350-450kg                                                                                                                                                                                                                                                                       |
| Enclosure Rating           | NEMA 3R, IK10                                                                                                                                                                                                                                                                   |
| Operating Temperature      | -30°C to 55°C(-22 F° to 131 F° )                                                                                                                                                                                                                                                |
| Operating Humidity         | <95% Non-condensing                                                                                                                                                                                                                                                             |
| Altitude                   | Up to 2000m                                                                                                                                                                                                                                                                     |
| Protection Function        | Undercurrent Protection, Overcurrent Protection, Undervoltage Protection, Overvoltage Protection, Short Circuit Protection, Residual Current Device, Over Temperature Protection, Surge Protection, Ground Fault Protection, Control Pilot Fault Protection, Leakage Protection |
| Emergency Stop             | E-stop Button                                                                                                                                                                                                                                                                   |
| Communication Interface    | 7-inch Touchable Screen(10inch Optional), Ethernet, Bluetooth/Wi-Fi, OCPP 1.6J platform, 4G(Optional)35-inch LCD Advertising Screen, Support USB, Wi-Fi, LAN Ethernet,4G                                                                                                        |
| Control Method             | RFID card(offline and online), Nayax POS, Plug n Play, VIN codeOR code, Credit Card                                                                                                                                                                                             |
| Mounting Type              | Floor Standing Installation                                                                                                                                                                                                                                                     |
| Compliance Standards       | ETL, FCC, Energy Star, CTEP compliance, ISO15118 compliance                                                                                                                                                                                                                     |
| Standards                  | NEC625, UL817, UL991, UL2231, UL2251, UL2594, OCPP1.6J Compliance                                                                                                                                                                                                               |
| Warranty Period            | 3 years                                                                                                                                                                                                                                                                         |
| Indicator Light            | Standby: Green on, Charging: Green flashes; Fault: Redlight on                                                                                                                                                                                                                  |
| Lighting                   | Atmospheric Neon LED Light                                                                                                                                                                                                                                                      |
| Heat Dissipation Method    | Air Cooling                                                                                                                                                                                                                                                                     |
| Recommended Air-break@208V | 225A                                                                                                                                                                                                                                                                            |
| Recommended Air-break@480V | 195A                                                                                                                                                                                                                                                                            |

-  Ambient Lighting
-  Convenient Payment Credit Card, No Hassle
-  Easy Install/Maintain Access
-  Easy-to-select Features& Accessories
-  Seamless Installation Rear Cable Entry Option
-  Dual-ports Chargers Reduces Time By Up To 50%



### Easy Options



Ethernet(LAN)



Bluetooth



Wi-Fi



4G



OCPP1.6J



RFID



Credit Card



Exact Billing



ISO15118

MORE+.....

## ATG-CNAC-BK01

# Wall-mounted Dual-ports

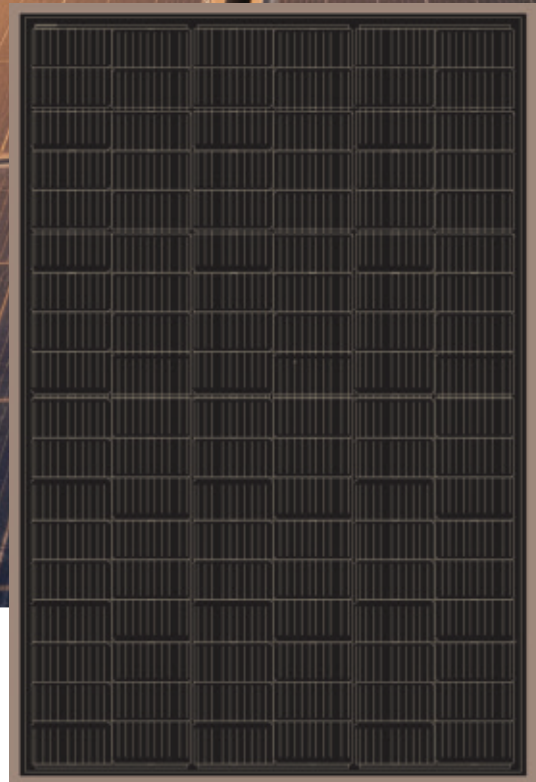
## Commercial EV Charger

| Model                   | CNAC-32A*2<br>-RGWB-BK01                                                                                                                                                                                                                                                        | CNAC-40A*2<br>-RGWB-BK01 | CNAC-48A*2<br>-RGWB-BK01 | CNAC-80A*2<br>-RGWB-BK01 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Product Type            | AC Charging Station                                                                                                                                                                                                                                                             |                          |                          |                          |
| Input Voltage           | 208/240V AC, Three-phase                                                                                                                                                                                                                                                        |                          |                          |                          |
| Input Frequency         | 50/60 Hz                                                                                                                                                                                                                                                                        |                          |                          |                          |
| Output Voltage          | 208/240V AC                                                                                                                                                                                                                                                                     |                          |                          |                          |
| Output Current          | 32A Max x2                                                                                                                                                                                                                                                                      | 40A Max x2               | 48A Max x2               | 80A Max x2               |
| Maximum Power Output    | 7.7kW x2                                                                                                                                                                                                                                                                        | 9.6kW x2                 | 11.5kW x2                | 19.2kW x2                |
| Input Wire              | Hardwired                                                                                                                                                                                                                                                                       |                          |                          |                          |
| Charging Connector Type | 2xSAE J1772(Default), NACS Tesla(Optional)                                                                                                                                                                                                                                      |                          |                          |                          |
| Cable Length            | 2x18FT/5.5m Standard (2x25FT/7.5m Optional)                                                                                                                                                                                                                                     |                          |                          |                          |
| Charging Modes          | Mode3                                                                                                                                                                                                                                                                           |                          |                          |                          |
| Charging Protocols      | OCPP 1.6J                                                                                                                                                                                                                                                                       |                          |                          |                          |
| Dimensions (H x W x D)  | 500*360*176mm(19.7*14.2*6.9inch)                                                                                                                                                                                                                                                |                          |                          |                          |
| Weight                  | 31.3lbs(14.2kg)                                                                                                                                                                                                                                                                 | 34.8lbs(15.8kg)          | 38.4 lbs(17.4kg)         | 43.7 lbs(19.8kg)         |
| Enclosure Rating        | NEMA Type3, IK08                                                                                                                                                                                                                                                                |                          |                          |                          |
| Operating Temperature   | -30°C to 50°C(-22°F to 122°F)                                                                                                                                                                                                                                                   |                          |                          |                          |
| Operating Humidity      | <95% Non-condensing                                                                                                                                                                                                                                                             |                          |                          |                          |
| Altitude                | Up to 2000m                                                                                                                                                                                                                                                                     |                          |                          |                          |
| Protection Function     | Undercurrent Protection, Overcurrent Protection, Undervoltage Protection, Overvoltage Protection, Short Circuit Protection, Residual Current Device, Over Temperature Protection, Surge Protection, Ground Fault Protection, Control Pilot Fault Protection, Leakage Protection |                          |                          |                          |
| Communication Interface | 7Inch Screen, WiFi&Bluetooth/4G                                                                                                                                                                                                                                                 |                          |                          |                          |
| Control Method          | RFID/NFC, POS, OCPP Platform                                                                                                                                                                                                                                                    |                          |                          |                          |
| Mounting Type           | Wall-mounted, Pedestal-mounted                                                                                                                                                                                                                                                  |                          |                          |                          |
| Compliance Standards    | ETL, FCC, Energy Star, CTEP compliance, ISO15118 compliance                                                                                                                                                                                                                     |                          |                          |                          |
| Standards               | NEC625,UL817, UL991,UL2231,UL2251,UL2594, OCPP1.6J Compliance                                                                                                                                                                                                                   |                          |                          |                          |
| Warranty Period         | 2 years                                                                                                                                                                                                                                                                         |                          |                          |                          |



**AMPS**  
American Made Power Solution

- Domestic Content
- FEOC Compliant



# AMPS Solar Panel

## MONO MODULE

| Model | STS-400P-54BB | STS-405P-54BB | STS-410P-54BB | STS-415P-54BB |
|-------|---------------|---------------|---------------|---------------|
|-------|---------------|---------------|---------------|---------------|

### ELECTRICAL CHARACTERISTICS AT STC

|                                |        |        |        |        |
|--------------------------------|--------|--------|--------|--------|
| Maximum Power (Pmax)           | 400W   | 405W   | 410W   | 415W   |
| Open Circuit Voltage (Voc)     | 37.2V  | 37.4V  | 37.6V  | 37.8V  |
| Short Circuit Current (Isc)    | 13.70A | 13.76A | 13.82A | 13.88A |
| Voltage at Maximum Power (Vmp) | 31.0V  | 31.2V  | 31.4V  | 31.6V  |
| Current at Maximum Power (Imp) | 12.91A | 12.99A | 13.06A | 13.14A |
| Module Efficiency (%)          | 20.49  | 20.74  | 21.00  | 21.25  |

|                            |                                                       |  |  |  |
|----------------------------|-------------------------------------------------------|--|--|--|
| Operating Temperature      | -40°C to +85°C                                        |  |  |  |
| Maximum System Voltage     | 1000V DC/1500V DC                                     |  |  |  |
| Fire Resistance Rating     | Type 1 (in accordance with UL 1703)/Class C(IEC61730) |  |  |  |
| Maximum Series Fuse Rating | 25A                                                   |  |  |  |

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

### ELECTRICAL CHARACTERISTICS AT NOCT

|                                |        |        |        |        |
|--------------------------------|--------|--------|--------|--------|
| Maximum Power (Pmax)           | 300W   | 304W   | 308W   | 312W   |
| Open Circuit Voltage (Voc)     | 34.2V  | 34.4V  | 34.6V  | 34.8V  |
| Short Circuit Current (Isc)    | 11.10A | 11.15A | 11.20A | 11.25A |
| Voltage at Maximum Power (Vmp) | 28.2V  | 28.4V  | 28.6V  | 28.8V  |
| Current at Maximum Power (Imp) | 10.64A | 10.71A | 10.77A | 10.84A |

NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind Speed 1 mis

### MECHANICAL DATA

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Cell type         | Monocrystalline PERC 182*91mm                       |
| Number of cells   | 108 (6x18)                                          |
| Module dimensions | 1722x1134x30mm (67.80x44.65x1.18inches)             |
| Weight            | 21.5kg (47.4lbs)                                    |
| Front cover       | 3.2mm (0.13inches) tempered glass with AR coating   |
| Frame             | Anodized aluminum alloy                             |
| Junction box      | IP68, 3 diodes                                      |
| Cable             | 4mm2 (0.006inches2), Portrait: 300mm (11.81 inches) |
| Landscape         | 1200mm (47.24inches)                                |
| Connector         | MC4 or MC4 compatible                               |

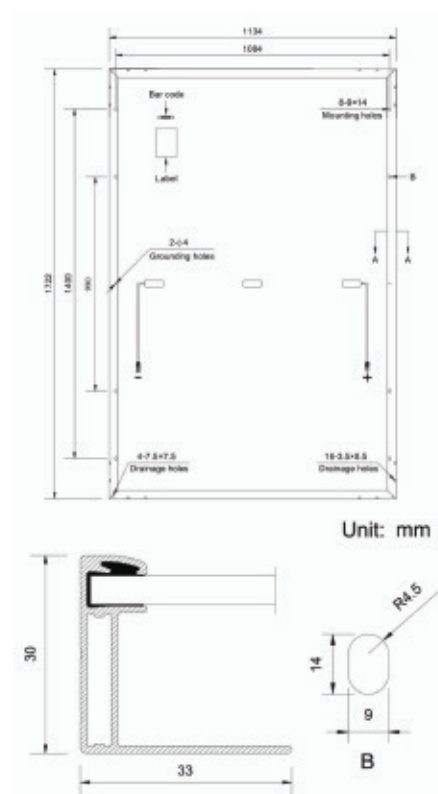
### TEMPERATURE CHARACTERISTICS

|                                           |           |
|-------------------------------------------|-----------|
| Nominal Operating Cell Temperature (NOCT) | 43°C±2°C  |
| Temperature Coefficients of Pmax          | -0.36%/°C |
| Temperature Coefficients of Voc           | -0.28%/°C |
| Temperature Coefficients of Isc           | 0.05%/°C  |

### PACKAGING

|                                   |                |
|-----------------------------------|----------------|
| Standard packaging                | 31 pcs/ pallet |
| Module quantity per 53' container | 1054 pcs       |
| Module quantity per 40' container | 806 pcs        |

### ENGINEERING DRAWINGS





**AMPS**  
American Made Power Solution

- Domestic Content
- FEOC Compliant

# AMPS Solar Panel

## Bi-Facial Module

| Module Type | STS-530P-72BB | STS-535P-72BB | STS-540P-72BB | STS-545P-72BB | STS-550P-72BB |
|-------------|---------------|---------------|---------------|---------------|---------------|
|-------------|---------------|---------------|---------------|---------------|---------------|

### ELECTRICAL PARAMETERS

| Testing Condition                   | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  |
|-------------------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| Maximum Power<br>- Pmax (W)         | 530    | 395   | 535    | 398   | 540    | 402   | 545    | 406   | 550    | 410   |
| Maximum Power Voltage<br>- Vmpp (V) | 41.32  | 38.6  | 41.48  | 38.7  | 41.64  | 38.8  | 41.80  | 39.0  | 41.96  | 39.1  |
| Maximum Power Current<br>- Impp (A) | 12.83  | 10.24 | 12.90  | 10.30 | 12.97  | 10.36 | 13.04  | 10.41 | 13.11  | 10.47 |
| Open Circuit Voltage<br>- Voc (V)   | 49.32  | 46.4  | 49.46  | 46.5  | 49.60  | 46.7  | 49.76  | 46.8  | 49.92  | 47.0  |
| Short Circuit Current<br>- Isc (A)  | 13.72  | 11.06 | 13.79  | 11.12 | 13.86  | 11.17 | 13.93  | 11.23 | 14.00  | 11.28 |
| Module Efficiency                   | 20.50% |       | 20.70% |       | 20.90% |       | 21.10% |       | 21.30% |       |

### BIFACIAL REAR SIDE POWER GAIN

| Module        | Bifaciality: 70±5% |       |       |       |       |
|---------------|--------------------|-------|-------|-------|-------|
| Maximum Power | Pmax Gain          | Voc/V | Isc/A | Vmp/V | Imp/A |
| 578W          | 5%                 | 49.92 | 14.70 | 41.96 | 13.77 |
| 605W          | 10%                | 49.92 | 15.40 | 41.96 | 14.42 |
| 633W          | 15%                | 49.92 | 16.10 | 41.96 | 15.08 |
| 660W          | 20%                | 49.92 | 16.80 | 41.96 | 15.73 |
| 688W          | 25%                | 49.92 | 17.50 | 41.96 | 16.39 |

Bifacial gain: the additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle, etc.) and albedo of the ground.

### TEMPERATURE CHARACTERISTICS

|                                 |             |
|---------------------------------|-------------|
| NMOT                            | 43°C (±2°C) |
| Temperature Coefficient of Pmax | -0.35%/°C   |
| Temperature Coefficient of Isc  | +0.048%/°C  |
| Temperature Coefficient of Voc  | -0.26%/°C   |

### MECHANICAL CHARACTERISTICS

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Dimensions         | 2279×1134×35mm (L×W×H)                                     |
| Weight             | 28kg                                                       |
| Frame              | Silver anodized aluminum alloy                             |
| Glass              | 3.2 mm coated tempered glass                               |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate)                               |
| Back Sheet         | Transparent                                                |
| Solar Cells        | 144(6×24) monocrystalline (182mm×91mm)                     |
| Junction Box       | IP68, 3 bypass diodes                                      |
| Cable & Connector  | Length 1400mm, 1x4mm <sup>2</sup> / MC4 and MC4 Compatible |

### MAXIMUM RATINGS

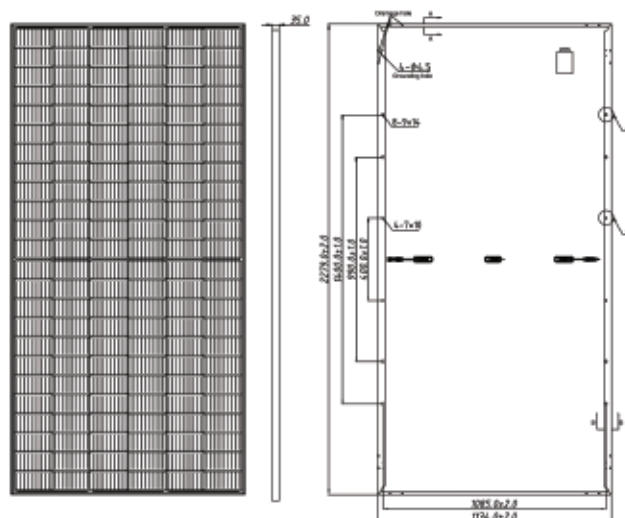
|                            |      |
|----------------------------|------|
| Maximum System Voltage (V) | 1500 |
| Series Fuse Rating (A)     | 25   |

### PACKAGING

|                      |                  |
|----------------------|------------------|
| Pallet Dimensions    | 2304x1130x1247mm |
| Pallet Quantity      | 31 Modules       |
| Truck (53') Quantity | 744 Modules      |

### SYSTEM DESIGN

|                         |                |
|-------------------------|----------------|
| Temperature Range       | -40°C to +85°C |
| Mechanical Load Front   | 5,400 Pa       |
| Mechanical Load Back    | 2,400 Pa       |
| Safety Protection Class | Class II       |





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# **PERC 182 BIFACIAL**

## **395-420W**

High efficiency bifacial modules

Full black



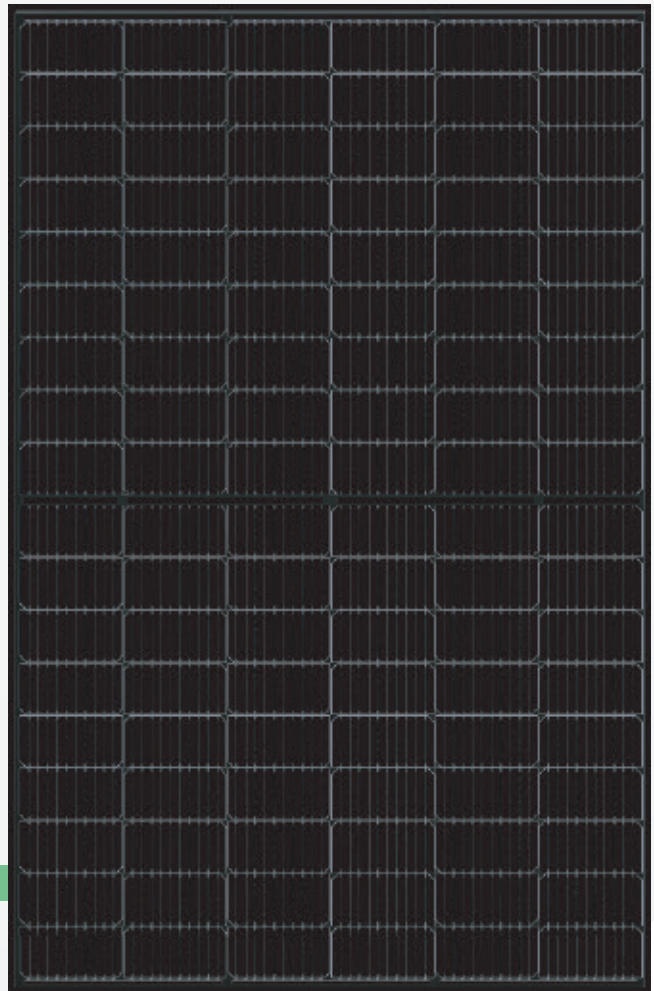
UTILITY



C&I

**Module efficiency**

# **21.48%**



**Sunpro Power**

# High Efficiency Bifacial Modules

## PERC 182 Bifacial 395-420W

| Module Type | SP395<br>-108M10 | SP400<br>-108M10 | SP405<br>-108M10 | SP410<br>-108M10 | SP415<br>-108M10 | SP420<br>-108M10 |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|

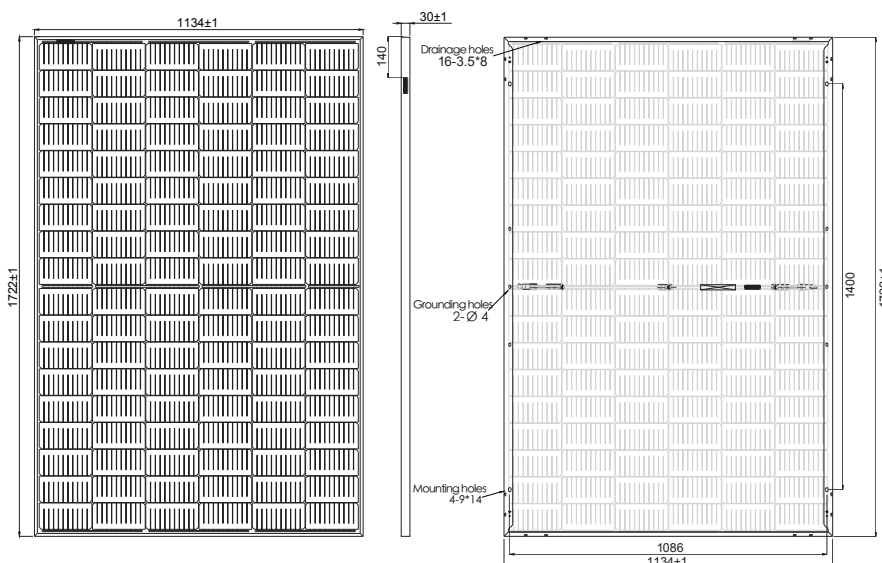
| ELECTRIC CHARACTERISTICS    |        |        |        |        |        |        |        |        |        |        | SP (395/420W)-108M10 |        |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|
| Testing Condition           | STC    | NMOT   | STC    | NMOT   | STC    | NMOT   | STC    | NMOT   | STC    | NMOT   | STC                  | NMOT   |
| Power ( Pmax/W )            | 395.00 | 294.00 | 400.00 | 298.00 | 405.00 | 301.00 | 410.00 | 305.00 | 415.00 | 309.00 | 420.00               | 313.00 |
| Maximum power voltage (Vmp) | 30.62  | 28.30  | 30.83  | 28.40  | 31.04  | 28.60  | 31.25  | 28.80  | 31.47  | 29.00  | 31.69                | 29.20  |
| Maximum power current (Imp) | 12.90  | 10.40  | 12.98  | 10.46  | 13.05  | 10.52  | 13.12  | 10.58  | 13.19  | 10.65  | 13.26                | 10.71  |
| Open circuit voltage (Voc)  | 36.73  | 34.30  | 36.93  | 34.50  | 37.13  | 34.60  | 37.33  | 34.80  | 37.53  | 35.00  | 37.73                | 35.20  |
| Short circuit current (Isc) | 13.69  | 11.04  | 13.76  | 11.09  | 13.83  | 11.15  | 13.90  | 11.20  | 13.97  | 11.26  | 14.04                | 11.32  |
| Module Efficiency           | 20.20% |        | 20.46% |        | 20.72% |        | 20.97% |        | 21.23% |        | 21.48%               |        |

STC ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup> ,Cells Temperature 25°C )  
 NMOT ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C,AM1.5,Wind Speed 1m/s )

| STRUCTURAL CHARACTERISTICS |                                                      |
|----------------------------|------------------------------------------------------|
| Module size (L*W*H)        | 1722×1134×30mm                                       |
| Weight                     | 20.3kg                                               |
| Cell                       | 108 cells, Mono Crystalline Silicon, 91mm×182mm-10BB |
| Glass                      | 3.2mm ultra clear embossed tempered coated glass     |
| Frame                      | Anodized aluminum alloy                              |
| Junction box               | IP68                                                 |
| Output wire                | 4mm <sup>2</sup>                                     |
| Wire length                | 1100mm                                               |
| Connector                  | MC4 Compatible                                       |
| Packing Specification      | 36 pcs/Pallet ; 936 pcs/40' HQ                       |

| OPERATING PARAMETERS              |                 |
|-----------------------------------|-----------------|
| Power tolerance (W)               | (0~+5W)         |
| Maximum system voltage (V)        | 1000V           |
| Maximum rated fuse current (A)    | 25A             |
| Current operating temperature (C) | -40~+85°C       |
| Mechanical load                   | +5400Pa/-2400Pa |

| TEMPERATURE CHARACTERISTICS       |             |
|-----------------------------------|-------------|
| Temp. Coeff. of Isc (TK Isc)      | 0.048% / °C |
| Temp. Coeff. of Voc (TK Voc)      | -0.27% / °C |
| Temp. Coeff. of Pmax (TK Pmax)    | -0.34% / °C |
| Normal Operating Cell Temperature | 45±2°C      |





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# **PERC 182 BIFACIAL** **540-565W**

High efficiency bifacial modules

· Silver frame, White mesh



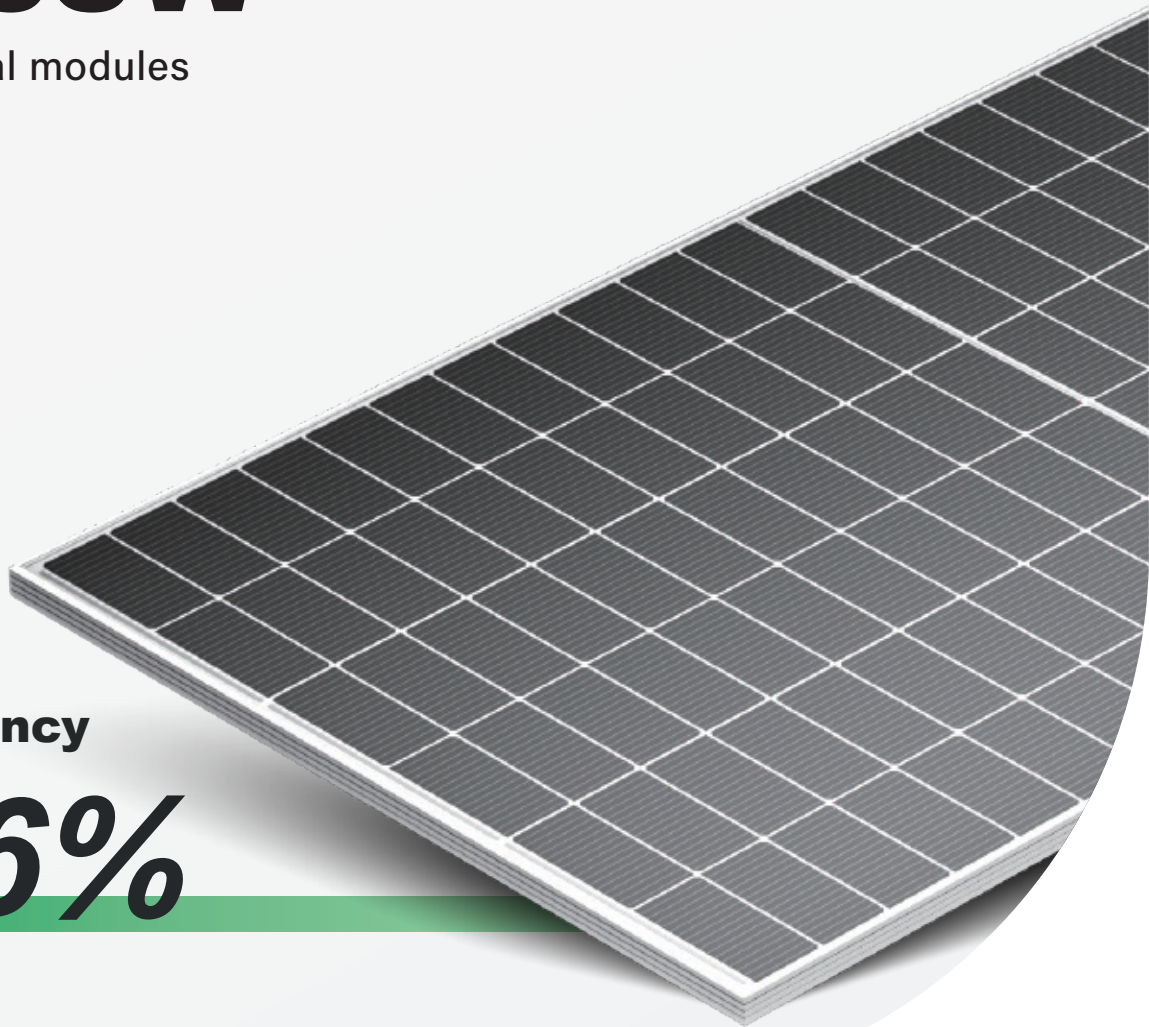
UTILITY



C&I

**Module efficiency**

# **21.86%**



**Sunpro Power**

# High Efficiency Bifacial Modules

## PERC 182 Bifacial 540-565W

| Module Type                 | SPDG540<br>-144M10 |       | SPDG545<br>-144M10 |       | SPDG550<br>-144M10 |       | SPDG555<br>-144M10 |       | SPDG560<br>-144M10 |       | SPDG565<br>-144M10 |                        |  |
|-----------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|------------------------|--|
| ELECTRIC CHARACTERISTICS    |                    |       |                    |       |                    |       |                    |       |                    |       |                    | SPDG (540/565W)-144M10 |  |
| Testing Condition           | STC                | NMOT  | STC                | NMOT  | STC                | NMOT  | STC                | NMOT  | STC                | NMOT  | STC                | NMOT                   |  |
| Power ( Pmax/W )            | 540                | 405   | 545                | 406   | 550                | 410   | 555                | 413   | 560                | 417   | 565                | 423                    |  |
| Maximum power voltage (Vmp) | 41.69              | 38.50 | 41.83              | 38.30 | 41.96              | 38.50 | 42.09              | 38.60 | 42.23              | 38.70 | 42.36              | 39.00                  |  |
| Maximum power current (Imp) | 12.96              | 10.53 | 13.03              | 10.59 | 13.11              | 10.65 | 13.19              | 10.71 | 13.27              | 10.77 | 13.34              | 10.83                  |  |
| Open circuit voltage (Voc)  | 49.58              | 46.6  | 49.74              | 46.40 | 49.90              | 46.50 | 50.06              | 46.70 | 50.22              | 46.80 | 50.38              | 47.20                  |  |
| Short circuit current (Isc) | 13.84              | 11.16 | 13.92              | 11.22 | 14.00              | 11.28 | 14.08              | 11.35 | 14.16              | 11.41 | 14.24              | 11.48                  |  |
| Module Efficiency           | 20.89%             |       | 21.09%             |       | 21.28%             |       | 21.48%             |       | 21.67%             |       | 21.86%             |                        |  |

STC ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup> ,Cells Temperature 25°C )  
 NMOT ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C,AM1.5,Wind Speed 1m/s )

### ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

|                             |        |        |        |        |       |        |
|-----------------------------|--------|--------|--------|--------|-------|--------|
| Front power Pmax/W          | 621.00 | 626.75 | 632.50 | 638.25 | 644   | 649.75 |
| Maximum power voltage (Vmp) | 41.69  | 41.83  | 41.96  | 42.08  | 42.23 | 42.36  |
| Maximum power current (Imp) | 14.90  | 14.98  | 15.07  | 15.17  | 15.25 | 15.34  |
| Open circuit voltage (Voc)  | 49.58  | 49.74  | 49.90  | 50.06  | 50.22 | 50.38  |
| Short circuit current (Isc) | 15.92  | 16.01  | 16.10  | 16.19  | 16.29 | 16.38  |

### STRUCTURAL CHARACTERISTICS

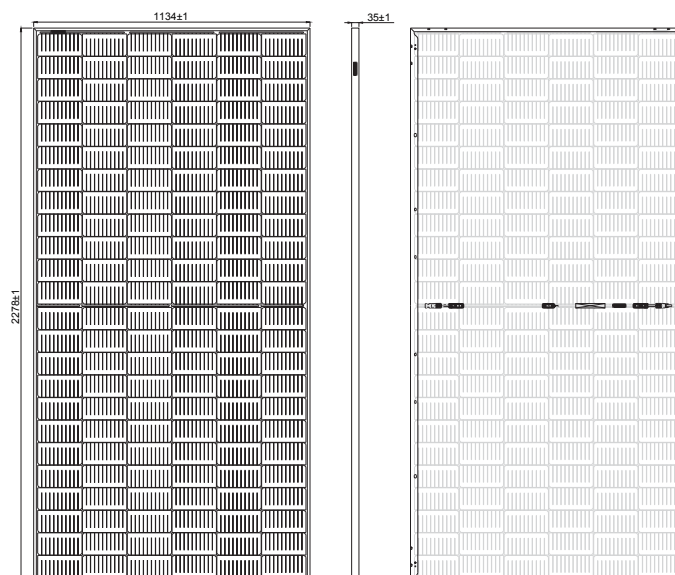
|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Module size (L*W*H)   | 2278×1134×35mm                                              |
| Weight                | 31kg                                                        |
| Cell                  | 144cells ( Half -Cell ), Mono-Crystalline PERC,182mm x 91mm |
| Front glass           | 2.0mm ultra clear embossed semi-tempered coated glass       |
| Back glass            | 2.0mm white mesh semi-tempered glass                        |
| Frame                 | Anodized aluminum alloy                                     |
| Junction box          | IP68                                                        |
| Output wire           | 4mm <sup>2</sup>                                            |
| Wire length           | Customization                                               |
| Connector             | MC4 compatible IP68                                         |
| Packing Specification | 31 pcs/Pallet ; 620 pcs/40'HQ                               |

### OPERATING PARAMETERS

|                                   |                 |
|-----------------------------------|-----------------|
| Power tolerance (W)               | (0~+5W)         |
| Maximum system voltage (V)        | 1500V           |
| Maximum rated fuse current (A)    | 30A             |
| Current operating temperature (C) | -40~+85°C       |
| Mechanical load                   | +5400Pa/-2400Pa |

### TEMPERATURE CHARACTERISTICS

|                                   |             |
|-----------------------------------|-------------|
| Temp. Coeff. of Isc (TK Isc)      | 0.048% / °C |
| Temp. Coeff. of Voc (TK Voc)      | -0.27% / °C |
| Temp. Coeff. of Pmax (TK Pmax)    | -0.34% / °C |
| Normal Operating Cell Temperature | 44±2°C      |





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# **TOPCon 182 BIFACIAL** **435-450W**

High efficiency bifacial modules

Module efficiency

# **23.04%**



**Sunpro Power**

# High Efficiency Bifacial Modules

## TOPCon 182 Bifacial 435-450W

| Module Type                 | SPDG435<br>-N108M10 |        | SPDG440<br>-N108M10 |        | SPDG445<br>-N108M10 |       | SPDG450<br>-N108M10 |       |
|-----------------------------|---------------------|--------|---------------------|--------|---------------------|-------|---------------------|-------|
| ELECTRIC CHARACTERISTICS    |                     |        |                     |        |                     |       |                     |       |
| SPDG (435/450W)-N108M10     |                     |        |                     |        |                     |       |                     |       |
| Testing Condition           | STC                 | NMOT   | STC                 | NMOT   | STC                 | NMOT  | STC                 | NMOT  |
| Power ( Pmax/W )            | 435                 | 325.00 | 440                 | 329.00 | 445                 | 332.4 | 450                 | 336.2 |
| Maximum power voltage (Vmp) | 31.94               | 29.80  | 32.09               | 29.90  | 32.25               | 30    | 32.41               | 30.1  |
| Maximum power current (Imp) | 13.62               | 10.91  | 13.72               | 11.00  | 13.8                | 11.08 | 13.89               | 11.16 |
| Open circuit voltage (Voc)  | 38.43               | 36.00  | 38.53               | 36.10  | 38.64               | 36.20 | 38.75               | 36.30 |
| Short circuit current (Isc) | 14.34               | 11.56  | 14.43               | 11.63  | 14.53               | 11.71 | 14.63               | 11.79 |
| Module Efficiency           | 22.28%              |        | 22.53%              |        | 22.79%              |       | 23.04%              |       |

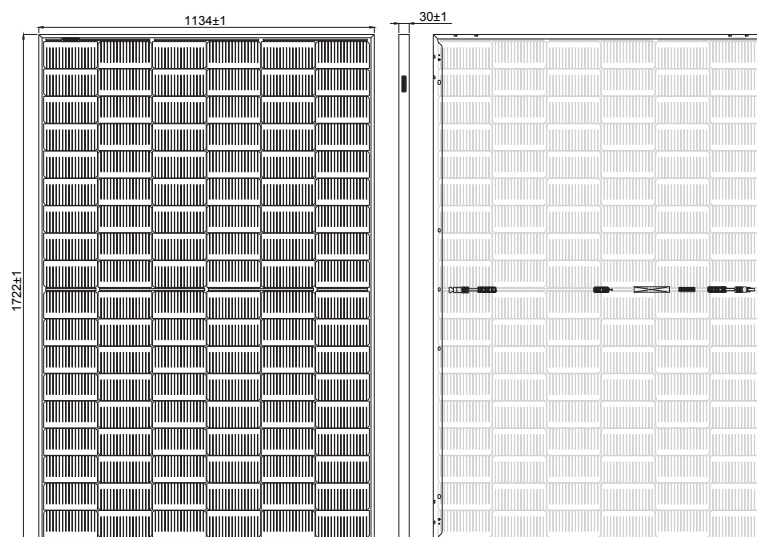
STC ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup> ,Cells Temperature 25°C )  
 NMOT ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C,AM1.5,Wind Speed 1m/s )

|                                                                 |        |        |        |       |
|-----------------------------------------------------------------|--------|--------|--------|-------|
| <b>ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN</b> |        |        |        |       |
| Front power Pmax/W                                              | 500.25 | 506.00 | 511.75 | 517.5 |
| Maximum power volt age (Vmp)                                    | 31.94  | 32.09  | 32.25  | 32.41 |
| Maximum power current (Imp)                                     | 15.66  | 15.77  | 15.87  | 15.97 |
| Open circuit voltage (Voc)                                      | 38.43  | 38.53  | 38.64  | 38.75 |
| Short circuit current (Isc)                                     | 16.49  | 16.59  | 16.71  | 16.82 |

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| <b>STRUCTURAL CHARACTERISTICS</b> |                                                 |
| Module size (L*W*H)               | 1722×1134×30mm                                  |
| Weight                            | 23.3kg                                          |
| Cell                              | 108 cells,N type Mono-Crystalline, 182mm x 91mm |
| Front glass                       | 2.0mm , Anti-Reflection Coating                 |
| Back glass                        | 2.0mm, Heat Strengthened Glass                  |
| Frame                             | Anodized aluminum alloy                         |
| Junction box                      | IP68, 3 bypass diodes                           |
| Output wire                       | 4mm <sup>2</sup>                                |
| Wire length                       | Line length 1100mm/customized                   |
| Connector                         | MC4 Compatible                                  |
| Packing Specification             | 36 pcs/Pallet; 936pcs/40' HQ                    |

|                                   |                 |
|-----------------------------------|-----------------|
| <b>OPERATING PARAMETERS</b>       |                 |
| Power tolerance (W)               | (0~+5W)         |
| Maximum system voltage (V)        | 1500V           |
| Maximum rated fuse current (A)    | 30A             |
| Current operating temperature (C) | -40~+85°C       |
| Mechanical load                   | +5400Pa/-2400Pa |

|                                    |             |
|------------------------------------|-------------|
| <b>TEMPERATURE CHARACTERISTICS</b> |             |
| Temp. Coeff. of Isc (TK Isc)       | 0.046% / °C |
| Temp. Coeff. of Voc (TK Voc)       | -0.25% / °C |
| Temp. Coeff. of Pmax (TK Pmax)     | -0.30% / °C |
| Normal Operating Cell Temperature  | 45±2°C      |





**Tier1**

BloombergNEF

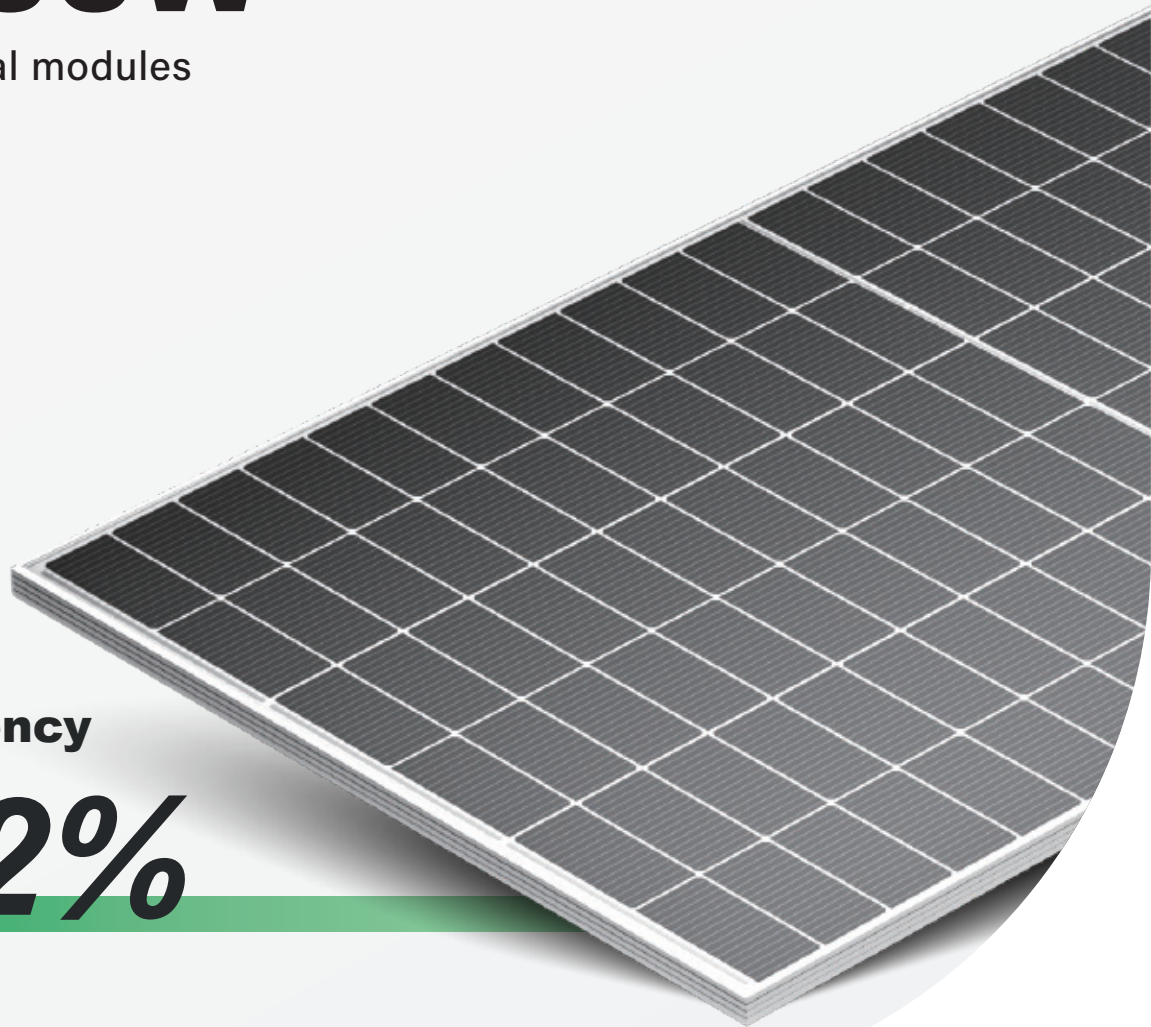
FEOC Compliant

*Power the future*

# **TOPCon 182 BIFACIAL**

## **585-600W**

High efficiency bifacial modules



**Module efficiency**

# **23.22%**



**Sunpro Power**

## High Efficiency Bifacial Modules

### TOPCon 182 Bifacial 585-600W

| Module Type | SPDG585<br>-N144M10 | SPDG590<br>-N144M10 | SPDG595<br>-N144M10 | SPDG600<br>-N144M10 |
|-------------|---------------------|---------------------|---------------------|---------------------|
|-------------|---------------------|---------------------|---------------------|---------------------|

| ELECTRIC CHARACTERISTICS    |        |        |        |        |        | SPDG (585/600W)-N144M10 |        |       |  |
|-----------------------------|--------|--------|--------|--------|--------|-------------------------|--------|-------|--|
| Testing Condition           | STC    | NMOT   | STC    | NMOT   | STC    | NMOT                    | STC    | NMOT  |  |
| Power ( Pmax/W )            | 585    | 437.30 | 590    | 441.00 | 595    | 444.60                  | 600    | 448.4 |  |
| Maximum power voltage (Vmp) | 42.72  | 39.90  | 42.87  | 40.00  | 43.03  | 40.20                   | 43.18  | 40.3  |  |
| Maximum power current (Imp) | 13.7   | 10.96  | 13.77  | 11.02  | 13.83  | 11.07                   | 13.90  | 11.13 |  |
| Open circuit voltage (Voc)  | 51.58  | 48.30  | 51.7   | 48.40  | 51.84  | 48.50                   | 51.97  | 48.7  |  |
| Short circuit current (Isc) | 14.41  | 11.61  | 14.48  | 11.67  | 14.55  | 11.72                   | 14.62  | 11.78 |  |
| Module Efficiency           | 22.64% |        | 22.83% |        | 23.02% |                         | 23.22% |       |  |

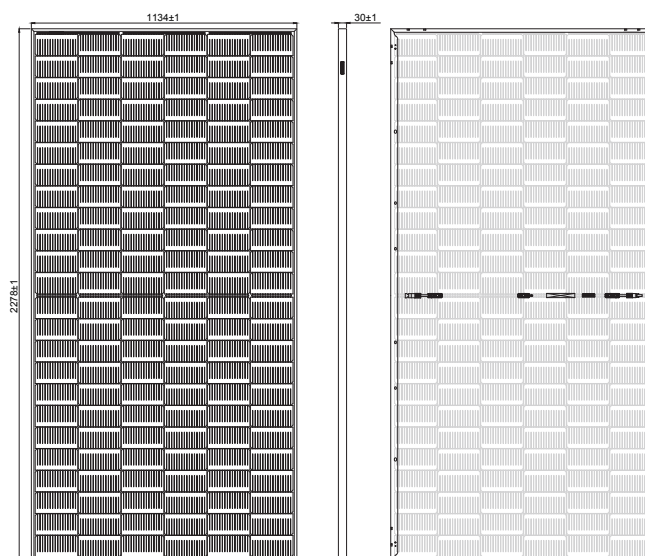
STC ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup> ,Cells Temperature 25°C )  
 NMOT ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C,AM1.5,Wind Speed 1m/s )

| ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN |        |        |        |        |
|----------------------------------------------------------|--------|--------|--------|--------|
| Front power Pmax/W                                       | 672.75 | 678.50 | 684.25 | 690.00 |
| Maximum power volt age (Vmp)                             | 42.72  | 42.87  | 43.03  | 43.18  |
| Maximum power current (Imp)                              | 15.75  | 15.83  | 15.90  | 15.98  |
| Open circuit voltage (Voc)                               | 51.58  | 51.70  | 51.84  | 51.97  |
| Short circuit current (Isc)                              | 16.57  | 16.65  | 16.73  | 16.81  |

| STRUCTURAL CHARACTERISTICS |                                                |
|----------------------------|------------------------------------------------|
| Module size (L*W*H)        | 2278x1134x30mm                                 |
| Weight                     | 31kg                                           |
| Cell                       | 144 cells,N type Mono-Crystalline , 182mm×91mm |
| Front glass                | 2.0mm , Anti-Reflection Coating                |
| Back glass                 | 2.0mm, Heat Strengthened Glass                 |
| Frame                      | Anodized aluminum alloy                        |
| Junction box               | IP68, 3 bypass diodes                          |
| Output wire                | 4mm <sup>2</sup>                               |
| Wire length                | Line length 1300mm/customized                  |
| Connector                  | MC4 Compatible                                 |
| Packing Specification      | 36 pcs/Pallet ; 720 pcs/40' HQ                 |

| OPERATING PARAMETERS              |                 |
|-----------------------------------|-----------------|
| Power tolerance (W)               | (0~+5W)         |
| Maximum system voltage (V)        | 1500V           |
| Maximum rated fuse current (A)    | 30A             |
| Current operating temperature (C) | -40~+85°C       |
| Mechanical load                   | +5400Pa/-2400Pa |

| TEMPERATURE CHARACTERISTICS       |             |
|-----------------------------------|-------------|
| Temp. Coeff. of Isc (TK Isc)      | 0.046% / °C |
| Temp. Coeff. of Voc (TK Voc)      | -0.25% / °C |
| Temp. Coeff. of Pmax (TK Pmax)    | -0.30% / °C |
| Normal Operating Cell Temperature | 45±2°C      |









## Contact Us

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