

30K / 60K

TITAN Commercial Inverter

Operates Seamlessly with Generator: Experience Uninterrupted Power, Even in Areas with Grid Instability

Titan 30K / Titan 60K

3 Phase | High Voltage

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Model	30K	60K
Input DC (PV side)		
Max. usable PV input power	60 kW	100 kW
Max. input voltage	1000 V	
Rated voltage	600 V	
Start-up voltage	180 V	
MPPT voltage range	150-850 V	
Max. input current	40 A / 40 A / 40 A	4 × 40 A
Max. short circuit current	65 A / 65 A / 65 A	4 × 65 A
MPPT number / Max. input strings number	3 / 6	4 / 8
Max input power per MPPT	25 kW (600 V × 40 A)	
Battery		
Battery type	Li-ion	
Battery voltage range	150 - 800 V	
Max. charge / discharge power	33 kW	60 kW
Max. charge / discharge current	70 A × 2 ①	
Number of battery ports	2	
Max. charge / discharge power of each input	33 kW	35 kW
Communication	CAN / RS485	
Output AC (Grid side)		
Rated output power	30 kW	60 kW
Max. apparent output power	30 kW	60 kW
Rated grid voltage	3/(N)/PE, 480 V	
Rated grid frequency	60 Hz	
Rated grid output current	36.1 A	72.2 A
Max. output current	36.1 A	72.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	

Titan 30K / Titan 60K Continued

Model	30K	60K
Input AC (Grid side)		
Max. AC passthrough current	72.2 A	144.4 A
Rated input voltage	3/(N)/PE, 480 V	
Rated input frequency	60 H	
Input Generator		
Max. input power	30 kW	60 kW
Max. input current	36.1 A	72.2 A
Rated input voltage	3/(N)/PE, 480 V	
Rated input frequency	60 Hz	
Output AC (Back-up)		
Rated output power	30 kW	60 kW
Max. apparent output power	1.6 times of rated power with 2 s	
Back-up switch time	< 10 ms	
Rated output voltage	3/(N)/PE, 480 V	
Rated frequency	60 Hz	
Rated output current	36.1 A	72.2 A
Max. imbalance power per phase	33% rated power	
THDv (@linear load)	< 2%	
Efficiency		
Max. efficiency	97.9%	
CEC efficiency	97.4%	
MPPT efficiency	99.9%	
Protection		
Ground fault detection	Yes	
Residual (leakage) current detection	Yes	
Integrated AFCI	Yes	
DC reverse-polarity protection	Yes	
PV DC switch	Yes	
Rapid shutdown NEC 2017	Integrated SunSpec-certified Transmitter	
Compatible RSD receivers	See MLRSD Compatibility Sheet	
Protection class/Over voltage category	I / II	
General Data		
Dimensions (W*H*D)	22 × 41.3 × 13.64 in (560 × 1050 × 346.5 mm)	
Weight	195.77 lbs (88.8 kg)	
Topology	Transformerless	
Self-consumption (night)	< 35 W	
Operating ambient temperature range	-13°F to 140°F (-25°C to 60°C)	
Relative humidity	0 - 100%	
Ingress protection	TYPE 4X	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	8,202 ft (2500 m)	
Compliance	UL1741SB, IEEE1547-2018, UL1699B, UL1998, FCCPart15ClassB, California Rule21, Hawaii Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1	
Features		
DC connection	Spring clamp terminals	
Grid AC connection	Screw type terminal block	
Back-up AC connection	Spring clamp terminals	
Battery DC connection	Spring clamp terminals	
Generator AC connection	Spring clamp terminals	
Interface	7.0" LCD display & Bluetooth + APP	
Monitoring platform	SolisCloud (modbus map and API sharing available upon request)	
Revenue grade meter	Integrated ANSI C12.20 option	
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN	

① Supporting parallel 140A input.