



TPP THREE PHASE PURE SINE WAVE INVERTER CHARGER

- High output capacity up to 45KW
- Unbalance Load Acceptable
- Idle Consumption-Search Mode, less than 100 W when Power Saver On
- DC input voltage 12VDC/24VDC/48VDC
- Powerful charge rate max charge current up to 450A(150A*3)
- Intelligent communication port RS 232, RS 485, CAN port
- Advanced MPPT solar charger controller Available
- LED + LCD Display
- Remote control optional(LED or LCD remote)
- Pure sine wave output
- Ultra Low THD, less than 3% under full linear load(battery low)
- 13Vdc battery Recover Point, Dedicated for Renewable Energy Systems

Specification

TPP Series Inverter & Charger												
Electrical Specifications												
Model	TPP 3KW	TPP 4.5KW	TPP 6KW	TPP 9KW	TPP 12KW	TPP 15KW	TPP 18KW	TPP 24KW	TPP 30KW	TPP 36KW	TPP 45KW	
Continuous Output Power	3000W	4500W	6000W	9000W	12000W	15000W	18000W	24000W	30000W	36000W	45000W	
Surge Rating(20s)	9000W	13500W	18000W	27000W	36000W	45000W	54000W	72000W	90000W	108000W	135000W	
Capable of Starting Electric Motor	3HP	4.5HP	6HP	9HP	12HP	15HP	18HP	24HP	30HP	36HP	45HP	
Unbalance Load Acceptable	100%											
DC Input Voltage	12.0/24.0/48.0Vdc					24.0/48.0Vdc			48Vdc			
Output Waveform	Pure Sine wave/Same as input(Bypass mode)											
Nominal Efficiency	89%(Peak)											
Line Mode Efficiency	>95%											
Power Factor	0.9-1.0											
Connection mode	3-phase 4-wire system+Gnd											
Output voltage rating	3AC/N 400V/207V											
Output phase voltage	120/230VAC	120/230VAC	120/230VAC	120/230VAC	120/230VAC	120/230VAC	120/230VAC	230VAC	230VAC	230VAC	230VAC	
Output Voltage Regulation	±10% RMS											
Output Frequency	50/60Hz ±0.3Hz											
Short Circuit Protection	Yes, Current Limit Function (Fault after 60ms)											
Typical transfer Time	Typical 6-8ms,10ms(Max)											
THD	< 3% Linear Load											
Nominal Input Voltage	12.0/24.0/48.0Vdc					24.0/48.0Vdc			48Vdc			
Minimum Start Voltage	10.5Vdc / 11.0Vdc (*2 for 24Vdc, *4 for 48Vdc)											
Low Battery Alarm	10.5Vdc / 11.0Vdc (*2 for 24Vdc, *4 for 48Vdc)											
Low Battery Trip	10.0Vdc / 10.5Vdc (*2 for 24Vdc, *4 for 48Vdc)											
High Voltage Alarm & Fault	16.0Vdc (*2 for 24Vdc, *4 for 48Vdc)											
High DC Input Recovery	15.5Vdc (*2 for 24Vdc, *4 for 48Vdc)											
Low Battery Voltage Recover	13.0Vdc (*2 for 24Vdc, *4 for 48Vdc)											
Idle Consumption-Search Mode	< 100 W when Power Saver On											
Input Voltage Range	Narrow: 96~132VAC / 184~253VAC;Wide: 70~135VAC / 140-270VAC;											
Input Frequency Range	Narrow: 47-55±0.3Hz for 50Hz, 57-65±0.3Hz for 60Hz Wide:40-70±0.3Hz for 50Hz/60Hz											
Output Voltage	Same as input											
Charger Breaker Rating(230Vac)	10A	10A	10A	20A	20A	30A	30A	40A	50A	60A	80A	
Charger Breaker Rating(120Vac)	10A	20A	20A	30A	40A	50A	60A					
Max Charge Rate	40A*3	60A*3	80A*3	120A*3	160A*3	100A*3	120A*3	80A*3	100A*3	120A*3	150A*3	
Power Factor	1/2 for 24Vdc, 1/4 for 48Vdc					1/2 for 48Vdc			48Vdc			
Over Charge Protection Shutdown	15.7V for 12Vdc (*2 for 24Vdc, *4 for 48Vdc)											
Battery type	Fast Vdc					Float Vdc						
Gel U.S.A	14.0					13.7						
A.G.M 1	14.1					13.4						
A.G.M 2	14.6					13.7						
Sealed Lead Acid	14.4					13.6						
Gel Euro	14.4					13.8						
Open Lead Acid	14.8					13.3						
Calcium	15.1					13.6						
De-sulphation	15.5 for 4hrs											
Remote Control	Yes. Optional LED/LCD											
Input Voltage Waveform	Sine wave (Grid or Generator)											
Nominal Voltage	120Vac					230Vac						
Low Voltage Trip	70V/96V±4%					184V/154V±4%						
Low Voltage re engage	75V/100V±4%					194V/164V±4%						
High Voltage Trip	130V±4%					253V/260V±4%						
High Voltage re engage	135V±4%					243V/270V±4%						
Max Input AC Voltage	150VAC					300VAC						
Nominal Input Frequency	50Hz or 60Hz (Auto detect)											
Low Freq Trip	Narrow: 47±0.3Hz for 50Hz, 57±0.3Hz for 60Hz Wide:40±0.3Hz for 50Hz/60Hz											
Low Freq re engage	Narrow: 48±0.3Hz for 50Hz, 58±0.3Hz for 60Hz Wide:42±0.3Hz for 50Hz/60Hz											
High Freq Trip	Narrow: 55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz Wide:70±0.3Hz for 50Hz/60Hz											
High Freq re engage	Narrow: 54±0.3Hz for 50Hz, 64±0.3Hz for 60Hz Wide:68±0.3Hz for 50Hz/60Hz											
Output Short circuit protection	Circuit breaker											
Bypass breaker rating(230Vac)	10A	10A	10A	20A	20A	30A	30A	40A	50A	60A	80A	
Bypass breaker rating(120Vac)	10A	20A	20A	30A	40A	50A	60A					
Communication methods	RS232/485/CAN											
Display	LED+LCD											