

48VDC Three Phase Pure sine wave Inverter/charger



Product Features

- High output capacity upto 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 commnication port RS 232,RS 485,CAN port.
- Advanced MPPT solar charger controller Available.
- LED + LCD Display.
- Remote control optional(LED or LCD remote)
- Connection mode:3-phase 4-wire /3-phase 3-wire.
- AC Voltage:3AC/N 400V/207V.
- DC Voltage:48VDC.
- Remote Control Seletable(RJ11 port/RJ45 port).
- Ultra Low THD, less than 3% under full linear load (battery low).
- 13Vdc battery Recover Point,Dedicated for Renewable Energy Systems.
- BTS Seletable.

Applications



Home Power Supply



Solar Energy Storage



RV



Office Equipment



Engineering Vehicles



Marine

Technical Parameter

TPP Series Inverter & Charger										
Inverter Output	Model	6KW	9KW	12KW	15KW	18KW	24KW	30KW	36KW	45KW
	Continuous Output Power	6000W	9000W	12000W	15000W	18000W	24000W	30000W	36000W	45000W
	Surge Rating(20s)	18000W	27000W	36000W	45000W	54000W	72000W	90000W	108000W	135000W
	"Capable of Starting Electric Motor"	6HP	9HP	12HP	15HP	18HP	24HP	30HP	36HP	45HP
	Unbalance Load Acceptable	100%								
	DC Input Voltage	48.0Vdc								
	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	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 Loac								
DC Input	Nominal Input Voltage	48.0Vdc								
	Minimum Start Voltage	42.0Vdc / 44.0Vdc								
	Low Battery Alarm	42.0Vdc / 44.0Vdc								
	Low Battery Trip	40.0Vdc / 42.0Vdc								
	High Voltage Alarm & Fault	64.0Vdc								
	High DC Input Recovery	62.0Vdc								
	Low Battery Voltage Recover	52.0Vdc								
	"Idle Consumption-Search Mode"	< 100 W when Power Saver On								
Charge	Input Voltage Range	Narrow: 96-132VAC / 184~253VAC ; Wide: 70-135VAC / 140-270VAC								
	Input Frequency Range	50Hz Narrow : 47-55Hz±0.3Hz ; 60Hz Narrow : 57-65Hz±0.3Hz ; 50Hz/60Hz Wide :40-70±0.3Hz								
	Output Voltage	Same as input								
	Charger Breaker Rating(230Vac)	10A	20A	20A	30A	30A	40A	50A	60A	
	Charger Breaker Rating(120Vac)	20A	30A	40A	50A	60A				

Technical Parameter

TPP Series Inverter & Charger											
Charge	Max Charge Rate	20A*3	30A*3	40A*3	50A*3	60A*3	80A*3	100A*3	120A*3	150A*3	
	Power Factor	0.97 MAX									
	Over Charge Protection Shutdown	62.8Vdc									
	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									
	Bypass & Protection	Input Voltage Waveform	Sine wave (Grid or Generator)								
Nominal Voltage		120Vac			230Vac						
Low Voltage Trip		70V / 96V±4%			184V / 154±4%						
Low Voltage re engage		75V / 100V±4%			194V / 164±4%						
High Voltage Trip		130V±4%			253V / 260±4%						
High Voltage re engage		135V±4%			243V / 270±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	20A	20A	30A	30A	40A	50A	60A	80A	
Bypass breaker rating(120Vac)	20A	30A	40A	50A	60A						
Other	Communication methods	RS232 / 458 / CAN									
	Display	LED+LCD									