

Hybrid Inverter

TCI P II On/Off Grid Inverter with Energy Storage



- Built-in MPPT Solar Charger
- Reserve BMS communication
- Self-consumption and Feed-in to the grid
- Built-in WiFi for mobile monitoring (APP is available)



TCI P II: On/Off Grid Inverter with Energy Storage



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Built-in MPPT solar charger
- Programmable supply priority for PV, Battery, or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid, and grid-tie with backup
- Detachable LCD panel
- Built-in WiFi for mobile monitoring (APP is available)
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation of up to 9 units

MODEL	TCI P II 3.0	TCI P II 5.0	TCI P II 6.0
PHASE	1-phase in / 1-phase out		
MAXIMUM PV INPUT POWER	4500W	6000W	
RATED OUTPUT POWER	3000W	5000W	6000W
MAXIMUM CHARGING POWER	3000W	5000W	6000W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 430 VDC		
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 27A	
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)		
Nominal Output Current	13A	21.7A	26.1A
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	95%		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Maximum AC Input Current	40 A		
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC		
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 27A	
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	93%		
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 430 VDC		
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 27A	
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)		
Nominal Output Current	13A	21.7A	26.1A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Maximum AC Input Current	40 A		
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Efficiency (DC to AC)	93%		
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Solar Charging Current	60 A	100 A	120 A
Maximum AC Charging Current	60 A	100 A	120 A
Maximum Charging Current	60 A	100 A	120 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	140 x 295 x 468		
Net Weight (kgs)	11	12	14
STANDARD			
Compliance Safety	CE, IEC 61727&62116 / IEC60950 / IEC61683 / IEC62109		
INTERFACE			
Parallel Function	Yes, 9 units		
Communication Port	USB, RS-232, Dry Contact and WiFi		
ENVIRONMENT			
Humidity	0 ~ 90% RH (No condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		