

ON/OFF GRID SOLAR INVERTER

Hybrid TECO Smart



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A MPPT Solar charge:max 6200W(for 3.6KW/4.2KW), max 6500W (for 6.2KW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Communication with lithium battery

MODEL	TTN-TECO-3.6KW	TTN-TECO-4.2KW	TTN-TECO-6.2KW
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	420*350*110		
Carton Dimension,D X W XH(mm)	500*415*180		
Net Weight (kgs)	8	8.5	9
Gross Weight(kgs)	9	9.5	10
INTERACE			
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non – condensing)		
Operating Temperature	-10℃ ~ 50℃		
STANDARD			
Compliance Safety	CE		

SPECIFICATIONS

MODEL	TTN-TECO-3.6KW		TTN-TECO-4.2KW	TTN-TECO-6.2KW
Phase	1-phase			
Maximum PV Input Power	6200W		6200W	6500W
Rated Output Power	3600W		4200W	6200W
Maximum Solar Charging Current	120A			
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	360/500VDC			
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC			
MPPT Voltage Range	60~450VDC			
Maximum Input Current	1/18A			1/22A
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	195.5~253VAC			
Nominal Output Current	15.7A	18.2A		27.0A
Power Factor	>0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	98%			
TWO LOAD OUTPUT POWER				
Full Load	3600W	4200W	6200W	
Maxium Main Load	3600W	4200W	6200W	
Maxium Second Load(battery mode)	1200W	1400W	2067W	
Maxium Load Cut Off Voltage	26VDC	26VDC		52VDC
Maxium Load Return Voltage	27VDC	27VDC		54VDC
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC			
Acceptable Input Voltage Range	90-280VAC or 170-280VAC			
Frequency Range	49-51±1Hz or 59-61±1Hz			
Maximum AC Input Current	30A	30A	40A	
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	360/500VDC			
MPPT Voltage Range	60~450VDC			
Maximum Input Current	1/18A			1/22A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	94%			
BATTERY & CHARGER				
Nominal DC Voltage	24VDC			48VDC
Maximum Solar Charging Current	120A	120A	140A	
Maximum AC Charging Current	100A	100A	100A	
Maximum Charging Current	120A	120A	140A	
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	360/500VDC			
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC			
MPPT Voltage Range	60~450VDC			
Maximum Input Current	1/18A			1/22A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	195.5~253VAC			
Nominal Output Current	15.7A	18.2A	27.0A	
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC			
Acceptable Input Voltage Range	90-280VAC or 170-280VAC			
Maximum AC Input Current	30A	30A	40A	
Maximum AC Charging Current	100A			