

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°C ~ 50°C | | |
| 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 | | |