

SMART MONOPHASE SMART INVERTER

Off-Grid Inverter



- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional anti-dusk kit

| MODEL | TT-NEW1K | TT-NEW 1K/MPPT | TT-NEW3K | TT-NEW3K MPPT | TT-NEW5K | TT-NEW5K MPPT | TT-PLUS 5K | TT-PLUS 5K MPPT | TT-PLUS 5K MPPT II | TT-PLUS 7K MPPT |
|---------------------------------------|---|----------------|-----------------|---------------|-----------------|---------------|-----------------|-----------------|--------------------|---------------------|
| Rated Power | 1000VA/1000W | | 3000VA / 3000W | | 5000VA / 5000W | | | | | |
| Parallel Capability | No | | | | | | Yes, 9 units | | | Yes, 6 units |
| INPUT | | | | | | | | | | |
| Voltage | 230 VAC | | | | | | | | | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances) | | | | | | | | | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | | | | | | | | | |
| OUTPUT | | | | | | | | | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | | | | | | | | | |
| Surge Power | 2000VA | | 6000VA | | | | 10000VA | | | |
| Efficiency (Peak) | 90% ~ 93% | | | | | | | | | |
| Transfer Time | 10 ms (For Personal Computers) ; 20 ms (For Home Appliances) | | | | | | | | | |
| Waveform | Pure sine wave | | | | | | | | | |
| BATTERY | | | | | | | | | | |
| Battery Voltage | 12 VDC | | 24 VDC | | 48 VDC | | | | | |
| Floating Charge Voltage | 13.5 VDC | | 27 VDC | | 54 VDC | | | | | |
| Overcharge Protection | 16 VDC | | 33 VDC | | 63 VDC | 63 VDC | 60 VDC | 66 VDC | | |
| SOLAR CHARGER & AC CHARGER | | | | | | | | | | |
| Solar Charger type | PWM | MPPT | PWM | MPPT | PWM | MPPT | | | | |
| Maximum PV Array Open Circuit Voltage | 55 VDC | 102 VDC | 80 VDC | 102 VDC | 105 VDC | 145 VDC | 90VDC | 60 VDC~115 VDC | 450 VDC | 500 VDC |
| Maximum PV Array Power | 600 W | 500 W | 1200 W | 1000 W | 2400 W | 3000 W | 2400W | 4000W | 4500W | 8000W |
| MPP Range @ Operating Voltage | N/A | 17 ~ 80 VDC | N/A | 30~80 VDC | N/A | 60 ~ 115 VDC | | 145 VDC | 120~430VDC | 950~450VDC |
| Maximum Solar Charge Current | 50 A | 40 A | 50 A | 40 A | 50 A | 60 A | 50A | 80 A | 80 A | 80 A |
| Maximum AC Charge Current | 20 A | | 25A | | 60 A | | | 80 A | 80 A | 80 A |
| Maximum Charge Current | 50 A | 60 A | 70 A | 60 A | 110 A | 120 A | 110 A | 140 A | 140 A | 800 A |
| PHYSICAL | | | | | | | | | | |
| Dimension, D x W x H (mm) | 88 x 225 x 320 | | 100 x 285 x 334 | | 100 x 300 x 440 | | 155 x 295 x 455 | 120 x 295 x 468 | 120 x 295 x 468 | 147 x 432,5 x 553,6 |
| Net Weight (kgs) | 4.4 | 4.4 | 6.3 | 6.5 | 8.5 | 9.7 | 9.8 | 13.5 | 11.0 | 18.4 |
| Communication Interface | USB/RS232 | | | | | | | | | |
| ENVIRONMENT | | | | | | | | | | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) | | | | | | | | | |
| Operating Temperature | -10°C to 50°C | | | | | | | | | |
| Storage Temperature | -15°C to 60°C | | | | | | | | | |