

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
Rated Power	1000VA/1000W		3000VA / 3000W		5000VA / 5000W				
Parallel Capability	No						Yes, 9 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
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	2400 W	3000 W	2400W	4000W	4500W
MPP Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30~80 VDC	N/A	60 ~ 115 VDC		145 VDC	120~430VDC
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	60 A	50A	80 A	80 A
Maximum AC Charge Current	20 A		25A		60 A				
Maximum Charge Current	50 A	60 A	70 A	60 A	110 A	120 A	110 A	140 A	140 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
Net Weight (kgs)	4.4	4.4	6.3	6.5	8.5	9.7	9.8	13.5	11.0
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								