

TT-NEW1K



TT-NEW3K



TT-NEW5K



- Generator Starting Function
- PWM or MPPT Option
- Selectable input voltage range
- Fast set up
- Compatible to different AC sources
- Overload and short circuit protection
- Cold start function
- Optional anti-dust kit

MODEL	TT-NEW1K	TT-NEW1K/MPPT	TT-NEW3K	TT-NEW3K/MPPT	TT-NEW5K	TT-NEW5K/MPPT
Rated Power	1000VA/1000W		3000VA / 3000W		5000VA / 5000W	
Parallel Capability	No					
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	
SOLAR CHARGER & AC CHARGER						
Solar Charger Type	PWM	MPPT	PWM	MPPT	PWM	MPPT
Max. PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	105 VDC	145 VDC
Max. PV Array Power	600 W	500 W	1200 W	1000 W	2400 W	3000 W
MPPT Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	60 ~ 115 VDC
Max. Solar Charge Current	50 A	40 A	50 A	40 A	50 A	60 A
Max. AC Charge Current	20 A		25 A		60 A	
Max. Charge Current	50 A	60 A	70 A	60 A	110 A	120 A
PHYSICAL FEATURES						
Dimension, D x W x H (mm)	88 x 225 x 320		100 x 285 x 334		100 x 300 x 440	
Net Weight (kg)	4.4	4.5	6.3	6.5	8.5	9.7
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					

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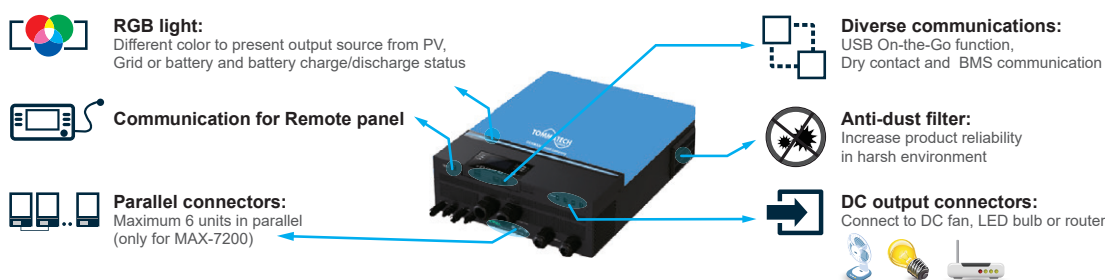
- › Pure sine wave output
- › Touchable button with 4.3" colored LCD
- › Self-consumption and Feed-in to the grid
- › Programmable supply priority for PV, Battery or Grid
- › User-adjustable charging current and voltage
- › Programmable multiple operation modes
- › Built-in Wi-Fi for mobile monitoring
- › Reserved communication port for BMS
- › Parallel operation up to 9 units

MODEL	TT-PLUS 5.6KW-48V
PHASE	1-Phase In / 1-Phase Out
Maximum PV Input Power [W]	6000
Rated Output Power [W]	5600
Maximum Charging Power [W]	6000
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage [V DC]	360 / 450
Start-up Voltage / Initial Feeding Voltage [V DC]	110/ 120
MPPT Voltage Range [V DC]	120 ~ 430
Number of MPP Trackers / Maximum Input Current [A]	1 / 27
GRID OUTPUT (AC)	
Nominal Output Voltage [V AC]	220/230/240
Output Voltage Range [V AC]	184 - 264.5 or 195.5 - 253 (Selectable)
Nominal Output Current [A]	24.3
Power Factor	>0.9
EFFICIENCY	
PV Conversion Efficiency (DC/AC)	%96
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage [V AC]	120 - 140 / 180
Acceptable Input Voltage Range [V AC]	90 - 280 or 170 - 280
Frequency Range [Hz]	50 / 60 (Auto Sensing)
Maximum AC Input Current [A]	40
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage [V AC]	220 / 230 / 240
Output Waveform	Pure Sine Wave
Battery Conversion Efficiency (DC to AC)	%93
BATTERY & CHARGER	
Nominal DC Voltage [V DC]	48
Maximum Solar Charging Current [A]	120
Maximum AC Charging Current [A]	120
Maximum Charging Current [A]	120
PHYSICAL SPECIFICATIONS	
Dimension, (D x W x H) [mm]	140 x 295 x 468
Weight [kg]	12
INTERFACE	
Parallel Function	Yes, 9 Units
Communication Port	USB / RS232 / RS485 / Wi-Fi / Dry-Contact
ENVIRONMENT	
Humidity [%]	0 ~ 90 RH (No Condensing)
Operating Temperature [°C]	-10 ~ 50

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- Customizable status LED bar with RGB lights
- Built-in wifi for mobile monitoring (Android/IOS Apps are available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on
- Parallel operation up to 6 units available for 7.2kVA and 11kVA



MODEL	TT-MPLUS 3.6KW-24V	TT-MPLUS 7.2KW-48V	TT-MPLUS 11KW-48V
Rated Power [VA/W]	3600/3600	7200/7200	11000/11000
Parallel Capability	No	Yes, 6 Units	
INPUT			
Voltage [V AC]	230		
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) 90-280 (For Home Appliances)		
Frequency Range [Hz]	50 /60 (Auto Sensing)		
OUTPUT			
AC Voltage Regulation (Battery Mode) [V AC]	230 ± 5%		
Surge Power [VA]	7500	15000	22000
Efficiency (Peak) [%]	93		
Transfer Time [ms]	10 (For Personal Computers) 20 (For Home Appliances)		
Waveform	Pure Sine Wave		
No Load Power Consumption [W]	< 45	< 70	
Dual Outputs	Yes		
BATTERY			
Battery Voltage [V DC]	24	48	
Floating Charge Voltage [V DC]	27	54	
Overcharge Protection [V DC]	33	66	
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Max. PV Array Power [W]	4000	8000 (4000 x 2)	11000
MPPT Range @ Operating Voltage [V DC]	120 ~ 450	90 ~ 450	
Max. PV Array Open Circuit Voltage [V DC]	500		
Max. Solar Charge Current [A]	80	150	
Max. AC Charge Current [A]	80	150	
Max. Charge Current [A]	80	150	
PHYSICAL FEATURES			
Dimension, D x W x H [mm]	147.4 x 432.5 x 553.6		
Net Weight [kg]	14.1	18.4	
Communication Interface	USB/RS232/RS485/Wi-Fi/Dry-Contact		
ENVIRONMENT			
Humidity [%]	5 ~ 95 RH (Non-Condensing)		
Operating Temperature [°C]	-10 ~ 50		
Storage Temperature [°C]	-15 ~ 60		
STANDARD			
Compliance Safety	CE		

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- Self-consumption and feed-in option
- Programmable power source priority
- Battery charging modes for different battery types
- Multiple operations mode
- Timer for off/on grid operations
- Parallel function 6 units

MODEL	TT-PLUS10K/MPPT	TT-PLUS15K/MPPT
Phase	3-phase in / 3-phase out	
Maximum Pv Input Power	14850 W	22500 W
Rated Output Power	10000 W	15000 W
Maximum Charging Power	9600 W	15000 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal Dc Voltage / Maximum Dc Voltage	720 VDC / 900 VDC	
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	
Mppt Voltage Range	400 VDC ~ 800 VDC	
Number Of Mppt Trackers / Maximum Input Current	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265VAC* per phase	184 - 264.5VAC per phase
Nominal Output Current	14.5A per phase	21.7A per phase
Power Factor	> 0.99	
EFFICIENCY		
Maximum Converts On Efficiency (Dc/ac)	96%	
European Efficiency @ Vnominal	95%	
OFF-GRID OPERATION		
AC INPUT		
Ac Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum Ac Input Current	40 A	
PV INPUT (DC)		
Maximum Dc Voltage	900 VDC	
Mppt Voltage Range	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
Number Of Mppt Trackers / Maximum Input Current	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform	Pure Sine Wave	
Efficiency (Dc To Ac)	91%	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal Dc Voltage / Maximum Dc Voltage	720 VDC / 900 VDC	
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	
Mppt Voltage Range	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
Number Of Mppt Trackers / Maximum Input Current	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC* per phase	184 - 264.5 VACper phase
Nominal Output Current	14.5 A per phase	21.7A per phase
AC INPUT		
Ac Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum Ac Input Current	40 A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (Dc To Ac)	91%	
BATTERY & CHARGER		
Nominal Dc Voltage	48 VDC	
Maximum Charging Current	Default 60A, 10A - 200A (Adjustable)	Default 60A, 5A - 300A (Adjustable)
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	167.2 x 500 x 622	219 x 650 x 820
Net Weight (Kgs)	40	62
INTERFACE		
Communication Port	RS-232/USB	RS-232, USB and Dry contact
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-Condensing)	
Operating Temperature	-10 to 55°C	
Altitude	0 ~ 1000 m**	

*These figures may vary depending on different AC voltage and country requirements.

**Power derating 1% every 100 m when altitude is over 1000m.

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