TOMMATECH M PLUS SERIES SMART INVERTERS











- > Customizable status LED bar with RGB lights
- > Built-in wifi for mobile monitoring via WatchPower App
- > Supports USB On-the-Go function
- > Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- > Replaceable fan design for effortless 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 100W DC Output
- > Parallel operation up to 6 units available for 7.2kVA and 11kVA



No	MODEL	TT-MPLUS 3.6KW-24V	TT-MPLUS 7.2KW-48V	TT-MPLUS 11KW-48V
NPUT Voltage V AC 230 Selectable Voltage Range V AC 170-280 (For Personal Computers) 90-280 (For Home Appliances) Solectable Voltage Range V AC 170-280 (For Personal Computers) 90-280 (For Home Appliances) Solectable Voltage V AC 180 Solectable V AC V	Rated Power [VA/W]	3600/3600	7200/7200	11000/11000
Voltage V AC 230 170-280 For Personal Computers) 90-280 For Home Appliances Nominal Frequency Hz 50 / 60 (Auto Sensing)	Parallel Capability	No	Yes,	6 Pieces
Selectable Voltage Range V AC 170-280 (For Personal Computers) 90-280 (For Home Appliances)	INPUT			
Nominal Frequency Hz	Voltage [V AC]			
Max input current per MPPT [A] 18	Selectable Voltage Range [V AC]	170-280 (For Personal Computers) 90-280 (For Home Appliances)		
Max input current per MPPT [A] 18 18 18 18 18 18 18	Nominal Frequency [Hz]	50 /60 (Auto Sensing)		
Max short circuit current per MPPT (A) 22	INPUT DC			
MPPT Range @ Operating Voltage [V DC] Number of MPPT 1 2 2 Strings per MPPT 1 1 1 1 1 1 1 AC OUTPUT AC OUTPUT AC Voltage [V AC] Surge Power [VA] 7500 15000 22000 Maximum Efficiency [%] 7500 15000 22000 Maximum Efficiency [%] 15 [For Personal Computers) 20 (For Home Appliances) Waveform No Load Power Consumption [W] 845 8ATTERY Battery Voltage [V DC] 27 54 Covercharge Protection [V DC] 33 66 63 SOLAR AC CHARGER SOLAR AC CHARGER SOLAR AC CHARGER SOLAR AC CHARGER MAX. PV Array Power [W] Max. PV Arr	Max input current per MPPT [A]	18	18	18
Number of MPPT	Max short circuit current per MPPT [A]	22	22	22
Strings per MPPT	MPPT Range @ Operating Voltage [V DC]	120 ~ 450	90	0 ~ 450
AC OUTPUT AC Voltage [V AC] 230 ± 5% Surge Power [VA] 7500 15000 22000 Maximum Efficiency [%] 90-93 Transfer Time [mis] 15 (For Personal Computers) 20 (For Home Appliances) 10 (For Personal Computers) 20 (For Home Appliances) 20 (For Home Appli	Number of MPPT	1	2	2
AC Voltage [V AC] Surge Power [VA] 7500 15000 230 ± 5% Surge Power [VA] 7500 15000 22000 Maximum Efficiency [%] 7500 15 (For Personal Computers) 20 (For Home Appliances) Waveform No Load Power Consumption [W] 845 845 848 848 848 848 848 84	Strings per MPPT	1	1	1
Surge Power [VA] 7500 15000 22000 Maximum Efficiency [%] 90-93 Transfer Time [ms] 15 (For Personal Computers) 20 (For Home Appliances) 10 (For Personal Computers) 20 (For Home Appliances) Waveform	AC OUTPUT			
Surge Power [VA] 7500 15000 22000	AC Voltage [V AC]	230 + 5%		
Maximum Efficiency [%] 90-93 Transfer Time [ms] 15 (For Personal Computers) 20 (For Home Appliances) 10 (For Personal Computers) 20 (For Home Appliances) Waveform Pure Sine Wave No Load Power Consumption [W] < 45	Surge Power [VA]	7500		22000
Transfer Time [ms] 15 (For Personal Computers) 20 (For Home Appliances) 10 (For Personal Computers) 20 (For Home Applian Wave Form Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (For Personal Computers) 20 (For Home Applian Wave Form) 10 (Form)	Maximum Efficiency [%]	, 555		
No Load Power Consumption [W] < 45 < 70	Transfer Time [ms]	15 (For Personal Compute		10 (For Personal Computers) 20 (For Home Appliance
BATTERY Battery Voltage [V DC] 24 48 Floating Charge Voltage [V DC] 27 54 Covercharge Protection [V DC] 33 66 63 SOLAR & AC CHARGER Solar Charger Type MPPT Max. PV Array Power [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [V DC] 120 ~ 450 90 ~ 450 Max. PV Array Open Circuit Voltage [V DC] 500 Max. PV Array Open Circuit Voltage [V DC] 80 150 Max. AC Charge Current [A] 80 150 Max. AC Charge Current [A] 80 150 Max. PV Array Power [W] 4000 Max. PV Arr	Waveform		·	
BATTERY Battery Voltage [V DC] 24 48 Floating Charge Voltage [V DC] 27 54 Covercharge Protection [V DC] 33 66 63 SOLAR & AC CHARGER Solar Charger Type MPPT Max. PV Array Power [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [V DC] 120 ~ 450 90 ~ 450 Max. PV Array Open Circuit Voltage [V DC] 500 Max. PV Array Open Circuit Voltage [V DC] 80 150 Max. AC Charge Current [A] 80 150 Max. AC Charge Current [A] 80 150 Max. PV Array Power [W] 4000 Max. PV Arr	No Load Power Consumption [W]	< 45 < 70		
Standard Voltage V DC 27	BATTERY			- 1 - 2
Floating Charge Voltage [V DC] 27 54 Overcharge Protection [V DC] 33 66 63 SOLAR & AC CHARGER SOLAR & AC CHARGER SOLAR POWER [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [V DC] 120 ~ 450 90 ~ 450 Max. PV Array Open Circuit Voltage [V DC] 500 Max. PV Array Open Circuit Voltage [V DC] 80 150 Max. Solar Charge Current [A] 80 150 Max. AC Charge Current [A] 80 150 Max. 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	Battery Voltage [V DC]	24	48	
Overcharge Protection [V DC] 33 66 63 SOLAR & AC CHARGER MPPT Solar Charger Type MPPT Max. PV Array Power [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [V DC] 120 ~ 450 90 ~ 450 Max. PV Array Open Circuit Voltage [V DC] 500 Max. PV Array Open Circuit Voltage [V DC] 80 150 Max. AC Charge Current [A] 80 150 Max. 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 5 ~ 95 RH (Non-Condensing) Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Standard -15 ~ 60 STANDARD	, ,	27	54	
SOLAR & AC CHARGER Solar Charger Type MPPT Max. PV Array Power [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [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 150 150 Dimension, D x W x H [mm] 147.4 x 432.5 x 553.6 18.4 Ve Weight [kg] 14.1 18.4 18.4 Communication Interface USB/RS232/RS485/Wi-Fi/Dry-Contact ENVIRONMENT 14.1 150		33	66	63
Max. PV Array Power [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [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 Max. Charge Current [A] 80 150 Max. PHYSICAL FEATURES 150 150 Dimension, D x W x H [mm] 147.4 x 432.5 x 553.6 18.4 Net Weight [kg] 14.1 18.4 Communication Interface USB/RS232/RS485/Wi-Fi/Dry-Contact ENVIRONMENT 5 ~ 95 RH (Non-Condensing) Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60	SOLAR & AC CHARGER			
Max. PV Array Power [W] 4000 8000 (4000 x 2) 11000 MPPT Operating Voltage Range [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 Max. Charge Current [A] 80 150 Max. Charge Current [A] 80 150 PHYSICAL FEATURES 50 150 Dimension, D x W x H [mm] 147.4 x 432.5 x 553.6 18.4 Communication Interface USB/RS232/RS485/Wi-Fi/Dry-Contact 18.4 Communication Interface USB/RS232/RS485/Wi-Fi/Dry-Contact 18.4 ENVIRONMENT 5 ~ 95 RH (Non-Condensing) Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60	Solar Charger Type		MPPT	
MPPT Operating Voltage Range [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 150 Dimension, D x W x H [mm] 147.4 x 432.5 x 553.6 18.4 Net Weight [kg] 14.1 18.4 Communication Interface USB/RS232/RS485/Wi-Fi/Dry-Contact ENVIRONMENT 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60	5 5.	4000	8000 (4000 x 2)	11000
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	•	120 ~ 450		0 ~ 450
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		500		
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		8	0	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	-	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 5 ~ 95 RH (Non-Condensing) Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60	5	8	0	150
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 5 ~ 95 RH (Non-Condensing) Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60	-			
Net Weight [kg] 14.1 18.4 Communication Interface USB/RS232/RS485/Wi-Fi/Dry-Contact ENVIRONMENT 5 ~ 95 RH (Non-Condensing) Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60 STANDARD			147 4 x 432 5 x 553 6	
Communication Interface ENVIRONMENT Humidity [%] Operating Temperature [°C] Storage Temperature [°C] STANDARD USB/RS232/RS485/Wi-Fi/Dry-Contact USB/RS232/RS485/Wi-Fi/Dry-Contact 5 ~ 95 RH (Non-Condensing) -10 ~ 50 -15 ~ 60		10.1		
ENVIRONMENT Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60 STANDARD				
Humidity [%] 5 ~ 95 RH (Non-Condensing) Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60 STANDARD	ENVIRONMENT			
Operating Temperature [°C] -10 ~ 50 Storage Temperature [°C] -15 ~ 60 STANDARD		5 ~ 95 RH (Non-Condensina)		
Storage Temperature [°C] -15 ~ 60 STANDARD	•	· ·		
STANDARD		-15 ~ 60		
			10 00	
			CE	

^{*} TommaTech GmbH reserves the right to change the specifications of the products without prior notice.

