

TOMMATECH MS SERIES MODIFIED SINE WAVE INVERTER

- › Built-in USB output port.
- › Compact , light weight and easy to operate design.
- › Low battery alarm.
- › The modified sine wave output waveform suitable for many electronic loads.
- › Low voltage alarm and shutdown.
- › Over voltage, overload and over temperature protection.
- › Short circuit and reverse polarity protection.
- › Soft-Start function.
- › Grounding protection.



MODEL	TT-MS300-12V	TT-MS600-12V	TT-MS600-24V	TT-MS1200-12V	TT-MS1200-24V	TT-MS1500-12V	TT-MS1500-24V
OUTPUT							
AC Voltage [V]				230			
AC Voltage Range [V AC]				220 ~ 240			
AC Regulation [%]				±10			
Rated Power [W]	300	600		1200		1500	
Peak Power [W]	600 (Few Seconds)	1200 (Few Seconds)		2400 (Few Seconds)		3000 (Few Seconds)	
Waveform	Modified Sine Wave						
Frequency [Hz]	50/60±3						
No Load Current Draw [A]	≤ 0.30	≤ 0.5		≤ 0.8		≤ 0.9	
Efficiency [%]	≥ 90						
USB	5V 2.1 A (Optional)			5V 500mA (Optional)			
LED Indicator	Green For Power On, Red For Power Failure Status						
Cooling Fan	Running Once Connect AC loads / Temperature Control (Optional)			By %30 Loads or Temperature Control			
INPUT							
DC Voltage [V]	12		24	12		24	
Voltage Range [V DC]	9.5 ~ 16		19 ~ 32	9.5 ~ 16		19 ~ 32	
DC Connector	600mm DC Cable With Cigarette Lighter Plug x1 ea, Battery DC Cable x2 ea			Battery Cable BVR 10x2ea		Battery Cable BVR 6x2ea	
PROTECTION							
Low Voltage Alarm [V DC]	9.5 ± 0.5		19 ± 1	11 ± 0.5		22 ± 1	
Low Voltage Shutdown [V DC]	10 ± 0.5		20 ± 1	9.5 ± 0.5		19 ± 1	
Reset Voltage after L.V.S [V DC]	11.5 ~ 12		23 ~ 24	11.5 ~ 12		23 ~ 24	
Overload	Shut Off Output, Auto. Reset						
Over Voltage [V DC]	15 ± 16		30 ± 32	15 ± 0.5		30 ± 1	
Over Temperature	Shut Off Output Automatically, Auto. Reset						
Output Short - Circuit	Shut Off, Auto. Reset						
Reverse Polarity	Fuse Burn Out						
Replaceable Fuse [A]	40	40x2	20x2	40x4	20x4	30x6	15x6
Soft Start [s]	Yes, 3 ~ 5						
Earth Leakage	Yes						
ACCESSORY							
Remote Control	Optional						
ENVIRONMENT							
Working Temp.	0~30 °C= @ %100 Load; 40 °C =@ %50 Load;						
Working Humidity [%]	20 ~ 90 RH (Non-Condensing)						
Storage Temp., Humidity	-30 ~ +70 °C / -22 ~ +158°F, 10 ~ %95 RH						
Temp. Coefficient [%]	10 ~ 90 RH (Non-Condensing)						
SAFETY & EMC							
Isolation Resistance [°C]	-20 ~ +50						
EMI Conduction & Radiation	I/ P-O/ P :100M Ohms / 500 VDC / 25 / %70 RH						
EMS Immunity	Compliance to EN55022 Chass B, 72 /245 /CEE, 95 / 64 / CE						
LVD	Compliance to EN61000-4-2,3						
E-mark	Compliance to EN60950, EN61558-1-2						
OTHER							
N.W. (g)	700	910		2550		2900	
Dimension (WxDxH) [cm]	18x13.4x5.8	22x13.4x5.8		27x23x10		27x23x10	
Packing	20 Units	15 Units		4 Units		4 Units	
Output Socket	A, B, C, D, E, F, G (Optional)			A, B, C, D, E, F, G, H, I, J, K, L, M, N (Optional)			

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MODEL	TT-MS2000-12V	TT-MS2000-24V	TT-MS2000-48V	TT-MS2500-12V	TT-MS2500-24V	TT-MS2500-48V
OUTPUT						
AC Voltage [V]				230		
AC Voltage Range [V AC]				220 ~ 240*		
AC Regulation [%]				±10		
Rated Power [W]	2000			2500		
Peak Power [W]	4000 (Few Seconds)			5000 (Few Seconds)		
Waveform	Modified Sine Wave					
Frequency [Hz]	50/60 ±3					
No Load Current Draw [A]	≤ 1.1					
Efficiency [%]	≥ 90					
USB	5V 500mA (Optional)					
LED Indicator	Green For Power On, Red For Power Failure Status					
Cooling Fan	By %30 Loads or Temperature Control					
INPUT						
DC Voltage [V]	12	24	48	12	24	48
Voltage Range [V DC]	9.5 ~ 16	19 ~ 32	38 ~ 64	9.5 ~ 16	19 ~ 32	38 ~ 64
DC Connector	Battery Cable BVR 10x4ea	Battery Cable BVR 10x2ea	Battery Cable BVR 6x4ea	Battery Cable BVR 16x4ea	Battery Cable BVR 16x2ea	Battery Cable BVR 10x2ea
PROTECTION						
Low Voltage Alarm [V DC]	11 ± 0.5	22 ± 1	44 ± 2	11 ± 0.5	22 ± 1	44 ± 2
Low Voltage Shutdown [V DC]	9.5 ± 0.5	19 ± 1	38 ± 2	9.5 ± 0.5	19 ± 1	38 ± 2
Reset Voltage after L.V.S [V DC]	11.5 ~ 12	23 ~ 24	46 ~ 48	11.5 ~ 12	23 ~ 24	46 ~ 48
Overload	Shut Off Output, Auto. Reset					
Over Voltage Shutdown [V DC]	15 ± 0.5	30 ± 1	60 ± 2	15 ± 0.5	30 ± 1	60 ± 2
Over Temperature	Shut Off Output Automatically, Auto. Reset					
Output Short - Circuit	Shut Off, Auto. Reset					
Reverse Polarity	Fuse Burn Out					
Replaceable Fuse [A]	30x8	15x8	7.5x8	30x10	15x10	7.5x10
Soft Start [s]	Yes, 3 ~ 5					
Earth Leakage	Yes					
ACCESSORY						
Remote Control	Optional					
ENVIRONMENT						
Working Temp.	0~30 °C= @ %100 Load; 40 °C =@ %50 Load					
Working Humidity [%]	20 ~ 90 RH (Non-Condensing)					
Storage Temp., Humidity	-30 ~ +70 °C / -22 ~ +158°F , 10 ~ %95 RH					
Temp. Coefficient [%]	10 ~ 90 RH (Non-Condensing)					
SAFETY & EMC						
Isolation Resistance [°C]	-20 ~ +50					
EMI Conduction & Radiation	I/ P-O/ P :100M Ohms / 500 VDC / 25 / %70 RH					
EMS Immunity	Compliance to EN55022 Chass B, 72 /245 /CEE, 95 / 64 / CE					
LVD	Compliance to EN61000-4-2,3					
E-mark	Compliance to EN60950, EN61558-1-2					
OTHER						
N.W. (g)	3960			4220		
Dimension (WxDxH) [cm]	32x23x10					
Packing	2 Units					
Output Socket	A, B, C, D, E, F, G, H, I, J, K, L, M, N (Optional)					

* TommaTech GmbH reserves the right to change the specification of products without prior notice.