



■ Features :

- True sine wave output (THD<3%)
- High surge power up to 3000W
- U.P.S. mode and energy saving mode (selectable)
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input polarity reverse / Overload / AC circuit breaker
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- Built-in solar / AC charger
- Support RS-232 communication (communication cable RJ11-RS232 included) Note.7
- 3 years warranty



SPECIFICATION

MODEL NO.	TN-1500-112□	TN-1500-124□	TN-1500-148□	TN-1500-212□	TN-1500-224□	TN-1500-248□		
	□ = A, F			□ = B, C, D				
OUTPUT	RATED POWER (Typ.)		1500W					
	MAXIMUM OUTPUT POWER (Typ.)		1725W for 180 sec. / 1875W for 10 sec. / surge power 3000W for 30 cycles					
	AC VOLTAGE		Factory setting set at 110VAC 100 / 110 / 115 / 120VAC selectable by setting button S.W		Factory setting set at 230VAC 200 / 220 / 230 / 240VAC selectable by setting button S.W			
	FREQUENCY Note.10		60±0.1Hz 50/60Hz selectable by setting button S.W		50±0.1Hz 50/60Hz selectable by setting button S.W			
	WAVEFORM Note.2		True sine wave (THD<3%)					
	AC REGULATION (Typ.)		±3.0%					
	TRANSFER TIME (Typ.)		10ms inverter→→by pass					
	SAVING MODE (Typ.)		Default disabled. Load≤5W will be changed to standby mode					
FRONT PANEL INDICATOR		Battery voltage level, output load level, saving mode, fault and operation status						
INPUT	BAT. VOLTAGE		12V	24V	48V	12V	24V	48V
	VOLTAGE RANGE (Typ.)Note.3,6		10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.) Note.5		150A	75A	37.5A	150A	75A	37.5A
	NO LOAD DISSIPATION (Typ.)		≤18W @ standby saving mode					
	OFF MODE CURRENT DRAW		≤1mA					
	EFFICIENCY (Typ.) Note.2		87%	89%	89%	88%	90%	91%
BATTERY INPUT PROTECTION	BATTERY TYPES		Open & sealed Lead Acid					
	FUSE		40A*5	30A*3	30A*2	40A*5	30A*3	30A*2
	BAT. LOW ALARM		11.3±4%	22.5±4%	45±4%	11.3±4%	22.5±4%	45±4%
	BAT. LOW SHUTDOWN		10.5±4%	21±4%	42±4%	10.5±4%	21±4%	42±4%
	REVERSE POLARITY		By internal fuse open					
OUTPUT PROTECTION	OVER TEMPERATURE		82°C ±5°C	82°C ±5°C	96°C ±5°C	68°C ±5°C	68°C ±5°C	68°C ±5°C
	OUTPUT SHORT		Protection type : Shut down o/p voltage, re-power on to recover ; by internal RTH3 detect on heatsink of power transistor					
	OVER LOAD (Typ.)		105 ~ 115% load for 180 sec., 115% ~ 125% load for 10 sec. Protection type : Shut down o/p voltage, re-power on to recover					
	CIRCUIT BREAKER		15A			10A		
	GFCI PROTECTION		Optional (Only type F)			None		
ENVIRONMENT	WORKING TEMP. Note.1		0 ~ +40°C @ 100% load ; 60°C @ 50% load					
	WORKING HUMIDITY		20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH non-condensing					
	VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS		UL458 (only for "GFCI" receptacle-Type F), EAC TP TC 004		IEC62368-1 CB, EAC TP TC 004 approved; Design refer to BS EN/EN62368-1			
	WITHSTAND VOLTAGE		Bat I/P - AC I/P:3.0KVAC Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC					
	ISOLATION RESISTANCE		Bat I/P - AC O/P, Bat I/P - FG, AC O/P - FG: 100M ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION		Compliance to FCC class A, EAC TP TC 020			Compliance to BS EN/EN55032 class B, 72/ 245/ CEE, 95/ 54/ CE, E-Mark, EAC TP TC 020		
	EMC IMMUNITY		Compliance to EAC TP TC 020			Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020		
AC CHARGER	CHARGE CURRENT (Typ.)		5.5A	2.7A	1.35A	5.5A	2.7A	1.35A
	CHARGE VOLTAGE		14.3V±4%	28.5V±4%	57V±4%	14.3V±4%	28.5V±4%	57V±4%
SOLAR CHARGER	MAX OPEN CIRCUIT VOLTAGE		25V	45V	75V	25V	45V	75V
	CHARGE CURRENT (max.)		30A					
	CHARGE VOLTAGE		14.3V±4%	28.5V±4%	57V±4%	14.3V±4%	28.5V±4%	57V±4%
OTHERS	CONTROL WIRING Note.7		RJ11 -RS232					
	DIMENSION		420*220*88mm (L*W*H)					
	PACKING		6.85Kg; 2pcs/15.7Kg/1.61CUFT					
NOTE	<p>1.Output derating capacity referenced by curve 1. 2.TH.D and Efficiency is tested by 1000W, linear load at 13V, 26V, 52V input voltage. 3.Input derating capacity referenced by curve 2. 4.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting. 5.DC current is tested by 1500W, linear load at 13V, 26V, 52V input voltage. 6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V. 7.The cable is enclosed for the connection between TN-1500 and computer for software monitoring. 8.Please do not turn on the inverter before start the engine if inverter connect to vehicle's battery directly. 9.The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 10.Type F for 60Hz only. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>							