Measures: 16.50 x 8.66 x 3.46"



# ■ 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
- Computer-based monitoring software (Note.7)
- 3 years warranty

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MODEL		TN-1500-112	TN-1500-124	TN-1500-148	TN-1500-212	TN-1500-224	TN-1500-248		
	RATED POWER (Typ.)	1500W		1		1			
		1725W for 180 sec. / 1875W for 10 sec. / surge power 3000W for 30 cycles							
	maximom out of tower (typ.)			arge power 5000vv i	Factory setting set at 230VAC				
	AC VOLTAGE	Factory setting set at 110VAC Factory setting set at 230VAC  100 / 110 / 115 / 120VAC selectable by setting button S.W 200 / 220 / 230 / 240VAC selectable by setting button S.W					notting button C M		
	FREQUENCY		Iz selectable by settir	-					
OUTPUT				ig button 5.vv	50 ± 0.1Hz 50/60Hz selectable by setting button S.W				
DUIPUI	WAVEFORM Note.2	True sine wave (THD<3%) ±3.0%							
	AC REGULATION (Typ.)								
	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							
	BAT. VOLTAGE	12V	24V	48V	12V	24V	48V		
	VOLTAGE RANGE (Typ.)Note.3,6		21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC		
	DC CURRENT (Typ.) Note.5	150A	75A	37.5A	150A	75A	37.5A		
INPUT	NO LOAD DISSIPATION (Typ.)	≦18W @ standby saving mode							
	OFF MODE CURRENT DRAW	≦1mA							
	EFFICIENCY (Typ.) Note.2	87%	89%	89%	88%	90%	91%		
	BATTERY TYPES	Open & sealed Lead	Acid	•	'	•			
	FUSE	40A*5	30A*3	30A*2	40A*5	30A*3	30A*2		
BATTERY	BAT. LOW ALARM	11.3±4%	22.5±4%	45±4%	11.3±4%	22.5±4%	45±4%		
NPUT ROTECTION	BAT. LOW SHUTDOWN	10.5±4%	21±4%	42±4%	10.5±4%	21±4%	42±4%		
KOTECTION	REVERSE POLARITY	By internal fuse oper	1						
		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 PROTECTION	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power transistor							
	OUTPUT SHORT	Protection type: Shut down o/p voltage, re-power on to recover; by internal KTH3 detection neatsink or power transistor  Protection type: Shut down o/p voltage, re-power on to recover							
	OUT OF OHORT	105 ~ 115% load for 180 sec., 115% ~ 125% load for 10 sec.							
	OVER LOAD (Typ.)	Protection type: Shut down o/p voltage, re-power on to recover							
	CIRCUIT BREAKER	15A			10A				
	GFCI PROCTECTION								
	WORKING TEMP. Note.1	Optional (Only type F	,		None				
	WORKING HUMIDITY	0 ~ +40°C @ 100% load ; 60°C @ 50% load							
NVIRONMENT		20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-30 ~ +70 °C / -22 ~ +158°F, 10 ~ 95% RH							
	VIBRATION	10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL458 (only for "GFCI" receptacle-Type F ) None							
SAFETY &	LVD	None EN60950-1							
МС	WITHSTAND VOLTAGE	Bat I/P - AC I/P:3.0KVAC Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC							
	EMC EMISSION	Compliance to FCC class A			Compliance to EN55022 class B, 72/ 245/ CEE, 95/ 54/ CE, E-N				
	EMC IMMUNITY	None			Compliance to EN61000-4-2,3,4,5,6,8,11				
AC	CHARGE CURRENT (Typ.)	5.5A	2.7A	1.35A	5.5A	2.7A	1.35A		
CHARGER	CHARGE VOLTAGE	14.3V±4%	28.5V±4%	57V±4%	14.3V±4%	28.5V±4%	57V±4%		
201.45	MAX OPEN CIRCUIT VOLTAGE		45V	75V	25V	45V	75V		
OLAR HARGER	CHARGE CURRENT (max.)	30A							
AILOLIN	CHARGE VOLTAGE	14.3V±4%	28.5V±4%	57V±4%	14.3V±4%	28.5V±4%	57V±4%		
	CONTROL WIRING Note.7	RJ11 -RS232							
OTHERS	DIMENSION	420*220*88mm (L*W*H)							
	PACKING	6.85Kg; 2pcs/15.7Kg/1.61CUFT							
IOTE	3.Input derating capacity refe 4.All parameters not specifie 5.DC current is tested by 150 6.The tolerance of each volta	city referenced by curve 1. s tested by 1000W, linear load at 13V, 26V, 52V input voltage.							

Measures: 16.50 x 8.66 x 3.46"

# ■ Instructions for TN-1500 monitoring software

- 1. The monitoring software can be downloaded from product section (with TN-1500 specification) on MEAN WELL's official website, http://www.meanwell.com
- 2. The monitoring software can run on Windows 7 English version, Windows 7 Chinese (Traditional, Taiwan) version, Windows 8 English version and Windows 8 Chinese (Traditional, Taiwan) version
- 3. Installation of TN-1500 unit and PC

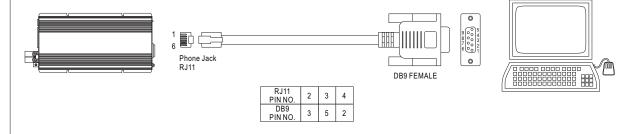


Figure 1

### 4. Explanation of Monitoring Manu

4.1 Main Page

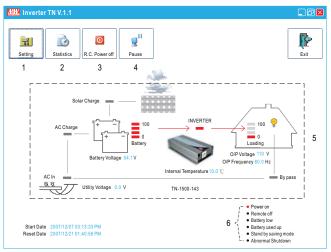


Figure 2

- $1. \ Setting: Adjustment for output voltage, charging related voltage, frequency, and operation mode. \ Please refer to Figure 3 for details.$
- 2. Statistics: Calculate for the percentage of operating period for each operation mode. Please refer to Figure 4 for details.
- 3. R.C. Power off: Power can be turned ON or OFF at the remote location.
- 4. Pause: Stop refreshing the page of monitoring software.
- 5. Status of unit: Indicating current operating status of TN-1500.
- 6. Signals that display current condition of the unit.

File Name:TN-1500-SPEC 2016-03-02



Measures: 16.50 x 8.66 x 3.46'

#### 4.2 Setting Page

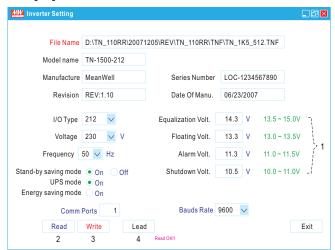


Figure 3

- 1. User can adjust the settings based on the characteristics of batteries been used: Equalization Voltage, Floating Voltage, Alarm Voltage, and Shut-down Voltage. UPS Mode / Energy Saving Mode selection and AC output voltage and frequency can also be set in this page.
- 2. Read: Read current settings of the unit.
- 3. Write: Write the revised setting into the unit.
- 4. Load: Load in factory default settings.

### 4.3 Statistic Page

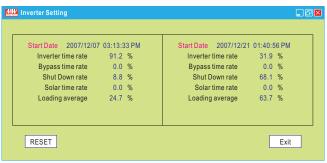


Figure 4

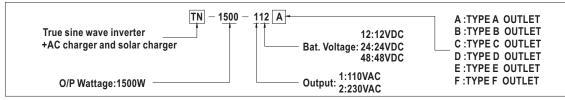
- 1. Start Date: Date that installing the monitoring software.
- 2. Reset Date: Date that resetting the statistics. The Start Date will not be influenced by resetting the statistics or turning off the unit.
- 3. Inverter time rate: Operating period of "Inverter Mode" represents how many percent of the whole operating period.
- 4. Bypass time rate: Operating period of "Bypass Mode" (energy provides directly by the utility) represents how many percent of the whole operating period.
- 5. Shut down rate: Percentage of time period that the unit is under the condition of shut down.
  - \* Inverter time rate + Bypass time rate + Shut down rate = 100%
- $6. \, Solar \, time \, rate: Percentage \, of time \, period \, that \, the \, solar \, charger \, is \, functioning \, after \, turning \, on \, the \, TN-1500 \, unit.$
- 7. Loading average: Average loading after turning on the TN-1500 unit.

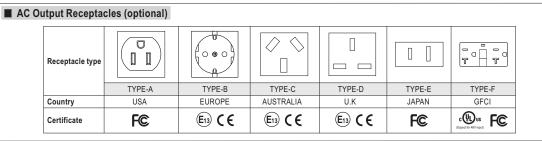
File Name:TN-1500-SPEC 2016-03-02

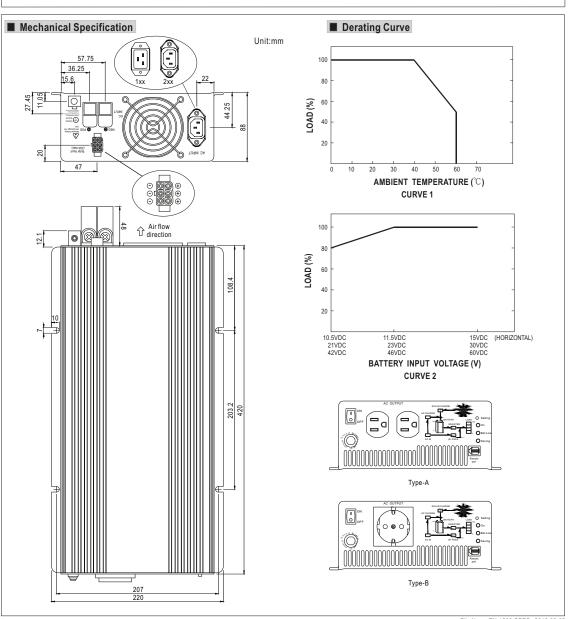




Measures: 16.50 x 8.66 x 3.46"







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