



■ 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
- Optional monitoring software
- 3 years warranty



SPECIFICATION

MODEL		TN-1500-112□	TN-1500-124□	TN-1500-148□	TN-1500-212□	TN-1500-224□	TN-1500-248□
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			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		
	FREQUENCY	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%) at rated input voltage					
	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	≤ 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					
BATTERY INPUT PROTECTION	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					
	OVER TEMPERATURE	82℃ ± 5℃ 82℃ ± 5℃ 96℃ ± 5℃ 68℃ ± 5℃ 68℃ ± 5℃ 68℃ ± 5℃ Protection type : Shut down o/p voltage, re-power on to recover ; by internal RTH3 detect on heatsink of power transistor					
OUTPUT PROTECTION	OUTPUT SHORT	Protection type : Shut down o/p voltage, re-power on to recover					
	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	20A			10A		
	GFCI PROTECTION	Optional (Only type F)			None		
	ENVIRONMENT	WORKING TEMP.	Note.1 0 ~ +40℃ @ 100% load ; 60℃ @ 50% load				
WORKING HUMIDITY		20% ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY		-30 ~ +70℃ / -22 ~ +158°F, 10 ~ 95% RH					
VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC		SAFETY STANDARDS	UL458 (only for "GFCI" receptacle-Type F) None				
	LVD	None			EN60950-1		
	WITHSTAND VOLTAGE	Bat I/P - AC I/P:3.0KVAC Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC					
	EMC EMISSION	Compliance to FCC class A			Compliance to EN55022 class B, 72/ 245/ CEE, 95/ 54/ CE, E-Mark		
	EMC IMMUNITY	None			Compliance to EN61000-4-2,3,4,5,6,8,11		
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					
OTHERS	CHARGE VOLTAGE	14.3V±4%	28.5V±4%	57V±4%	14.3V±4%	28.5V±4%	57V±4%
	CONTROL WIRING	RJ11 -RS232 (Option)					
OTHERS	DIMENSION	420*220*88mm (L*W*H)					
	PACKING	6.85Kg; 2pcs/15.7Kg/1.61CUFT					
NOTE	1. Output derating capacity referenced by curve 1. 2. THD 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℃ of ambient temperature. 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						

■ Instructions for TN-1500 monitoring software

1. Installation of TN-1500 unit and PC

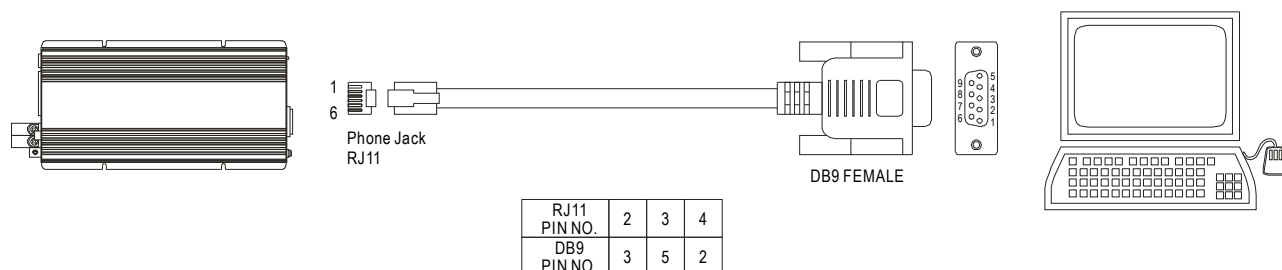


Figure 1

2. Explanation of Monitoring Manu

2.1 Main Page

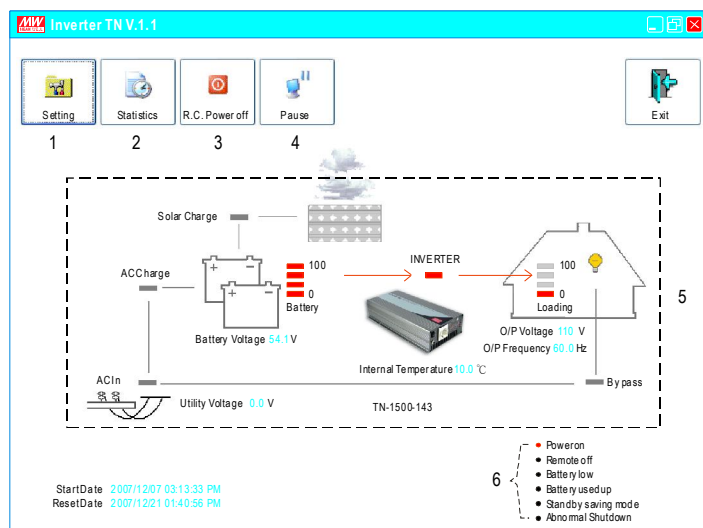


Figure 2

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.

2.2 Setting Page

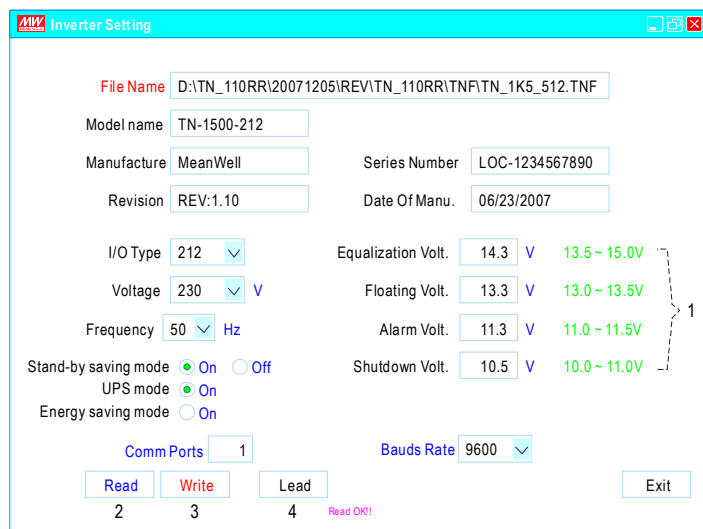


Figure 3

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.

2.3 Statistic Page

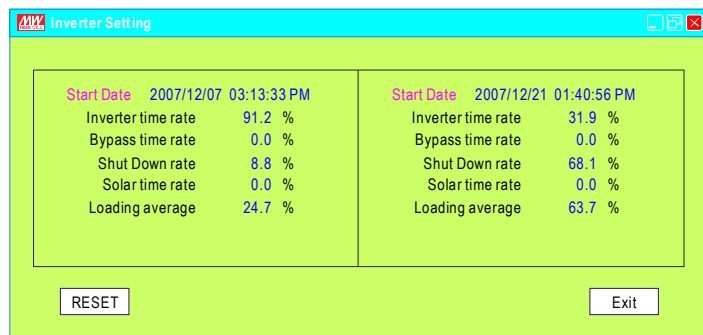


Figure 4

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.

$$\text{* Inverter time rate + Bypass time rate + Shut down rate = 100 \%}$$
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.

True sine wave inverter
+AC charger and solar charger

O/P Wattage:1500W

TN - 1500 -

112 A

Bat. Voltage: 12:12VDC
24:24VDC
48:48VDC

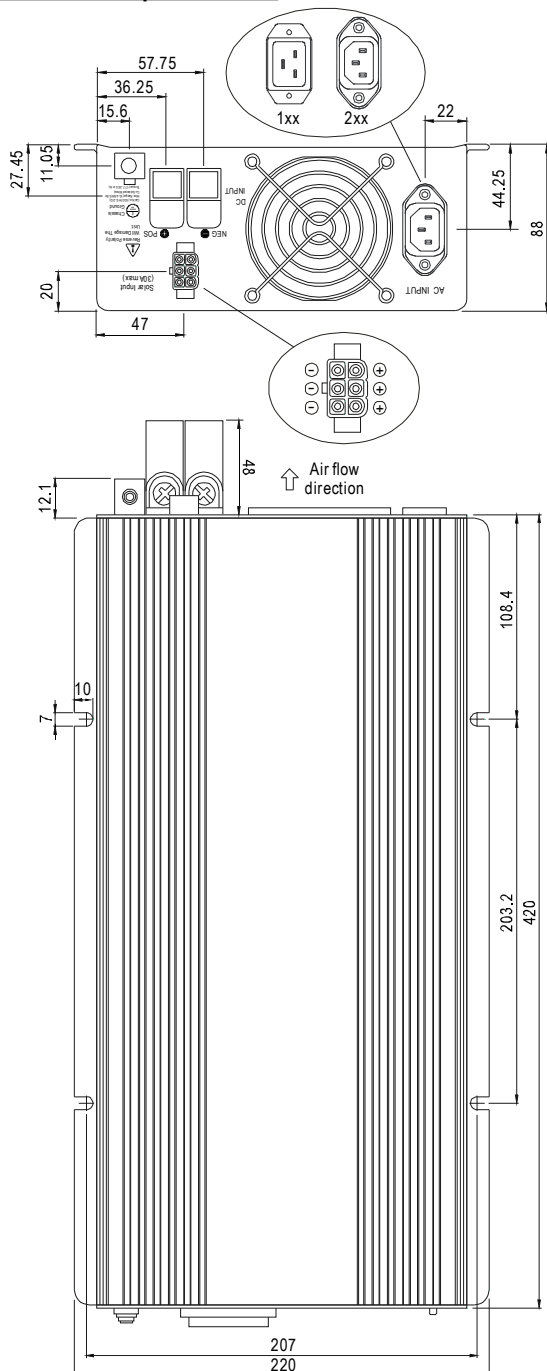
Output: 1:110VAC
2:230VAC

A:TYPE A OUTLET
B:TYPE B OUTLET
C:TYPE C OUTLET
D:TYPE D OUTLET
E:TYPE E OUTLET
F:TYPE F OUTLET

AC Output Receptacles (optional)

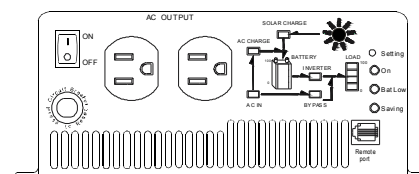
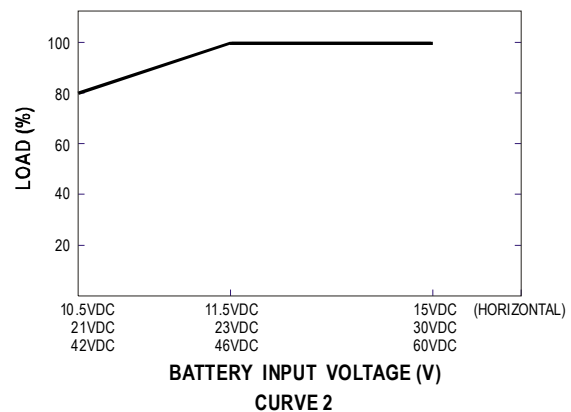
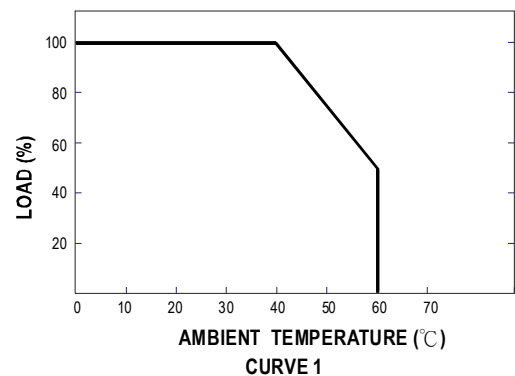
Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	UL US FC (Expect for 48V input)

Mechanical Specification

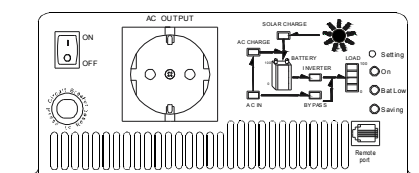


Unit:mm

Derating Curve



Type-A



Type-B



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Электрон
Связь**

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