



■ Features :

- True sine wave output (THD<3%)
- High surge power up to 6000W
- U.P.S. mode and energy saving mode (selectable)
- High efficiency up to 92%
- 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 and connection cable (MW order No.: DS-TN-1500)
- 3 years warranty

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SPECIFIC	ATION			3 years warran	ty	t GEO US		
MODEL		TN-3000-112	TN-3000-124	TN-3000-148	TN-3000-212	TN-3000-224	TN-3000-248	
	RATED POWER (Typ.)	3000W	1					
	(• . ,	3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles						
	, , , ,	Factory setting set at 110VAC Factory setting set at 230VAC						
	AC VOLTAGE	100 / 110 / 115 / 120VAC selectable by setting button S.W 200 / 220 / 230 / 240VAC selectable by setting button S.W					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			
OUTPUT	WAVEFORM		, ,		30±0.1112 30/00112 selectable by setting button 3.W			
	AC REGULATION (Typ.)	True sine wave (THD<3%) at rated input voltage ±3%						
	TRANSFER TIME (Typ.)	10ms inverter → by pass						
	SAVING MODE (Typ.)	Default disabled. Load ≤ 5W will be changed to standby mode						
	(31 /	,						
	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.4		150A	75A	300A	150A	75A	
INPUT		≤10W @ standby saving mode						
ı	OFF MODE CURRENT DRAW (Typ.)	≦1mA						
	EFFICIENCY (Typ.) Note.1	88%	90%	91%	89%	91%	92%	
	BATTERY TYPES	Open & sealed lead a	acid battery					
	FUSE	40A*12	40A*6	20A*6	40A*12	40A*6	20A*6	
BATTERY INPUT	BAT. LOW ALARM Note.6	11.3V	22.5V	45V	11.3V	22.5V	45V	
PROTECTION	BAT. LOW SHUTDOWN Note.6	10.5V	21V	42V	10.5V	21V	42V	
	REVERSE POLARITY	By internal fuse oper	1					
OUTPUT PROTECTION	OVER TEMPERATURE	90°C±5°C	85°C ± 5°C	85°C ± 5°C	80°C±5°C	75°C ± 5°C	75°C±5°C	
		Protection type : Shut down o/p voltage, re-power on to recover						
	OUTPUT SHORT	Protection type : Shut down o/p voltage, re-power on to recover						
		105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.						
	OVER LOAD (Typ.)	Protection type: Shut down o/p voltage, re-power on to recover						
	CIRCUIT BREAKER	AC output: 40A, AC receptacle:15A			AC output: 20A, AC receptacle: 15A			
	GFCI PROCTECTION	Optional (Only type F)			None			
	WORKING TEMP. Note.2	0 ~ +40°C @ 100% load; 60°C @ 50% load						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
ENVIRONMENT	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 Type G) None						
	LVD	None EN60950-1						
SAFETY &	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	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		5022 class A 72/ 245/	CEE, 95/ 54/ CE, E-Mai			
40	EMC IMMUNITY	None			Compliance to EN61000-4-2,3,4,5,6,8,11			
	CHARGE CURRENT (Typ.)	25A	12A	6A	25A	12A	6A	
AC CHARGER	, , , ,	14.3V	28.5V	57V	14.3V	28.5V	57V	
	MAX OPEN CIRCUIT VOLTAGE		45V	75V		45V	75V	
SOLAR PANEL			T-0 V	100	25V	140 V	134	
	SHORT CIRCUIT CURRENT (max.) CONTROL WIRING							
OTHERS		RJ11 -RS232 (Option)						
	DIMENSION PACKING	466.8*283.5*100mm (L*W*H)						
NOTE	1.Efficiency is tested by 2100 2.Output derating capacity ref 3.Input derating capacity refe 4.DC current is tested by 300 5.All parameters not specifie	erenced by curve 2. 00W, linear load at 12V, 24V, 48V input voltage. above are measured at rated load, 25° C of ambient temperature.						
	6.The tolerance of each volta	age value by models	s is:112/212→±0.5V	;124/224→±1V;148	3/248→±2V	File Name	e:TN-3000-SPEC 2013-01	



■ Instructions for TN-3000 monitoring software

1. Installation of TN-3000 unit and PC

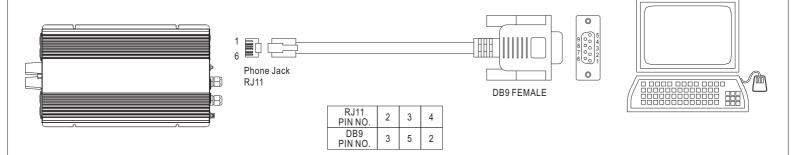


Figure 1

2. Explanation of Monitoring Manu

2.1 Main Page

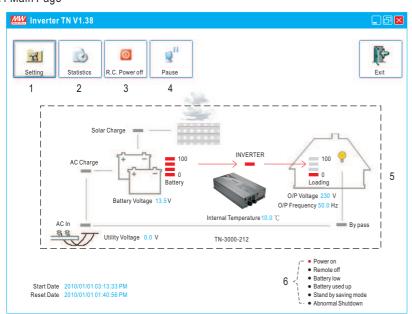


Figure 2

- 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-3000.
- 6. Signals that display current condition of the unit.



2.2 Setting Page

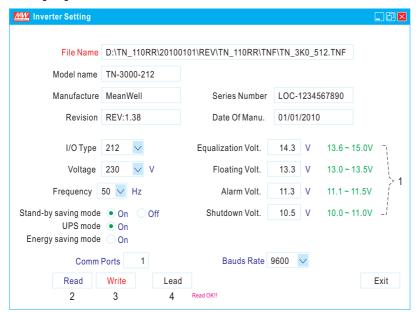


Figure 3

- 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

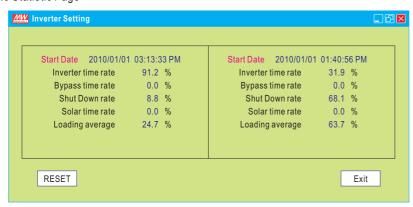
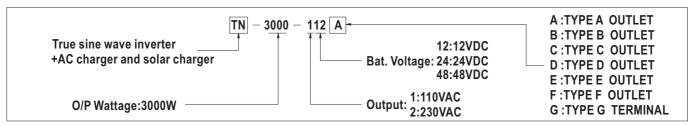
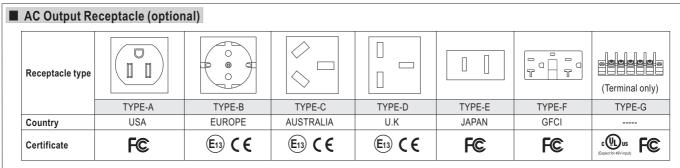


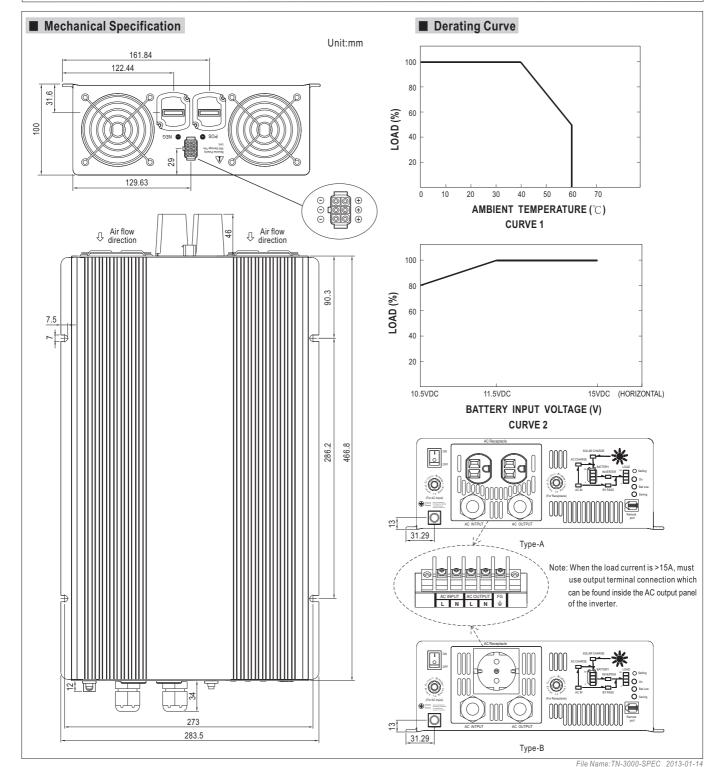
Figure 4

- 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.
 - * 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-3000 unit.
- 7. Loading average: Average loading after turning on the TN-3000 unit.









Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mean Well:

<u>TN-3000-112A</u> <u>TN-3000-112F</u> <u>TN-3000-124A</u> <u>TN-3000-124F</u> <u>TN-3000-148A</u> <u>TN-3000-148F</u> <u>TN-3000-212A</u> <u>TN-3000-212A</u> <u>TN-3000-212F</u> TN-3000-224A TN-3000-224F TN-3000-248A TN-3000-248F