







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

SPECIFICATION



MODEL		TN-3000-112	TN-3000-124	TN-3000-148	TN-3000-212	TN-3000-224	TN-3000-248
	RATED POWER (Typ.)	3000W		1		'	'
ОИТРИТ	MAXIMUM OUTPUT POWER (Typ.)	3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles					
		Factory setting set a			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					
	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.8						
	AC REGULATION (Typ.)	±3%					
	TRANSFER TIME (Typ.)	10ms inverter					
	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 op			operation status		
	BAT. VOLTAGE	12V	24V	48V	12V	24V	48V
INPUT	VOLTAGE RANGE (Typ.) Note.3,6		21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
			150A	75A		150A	75A
	() (337. 137. 137.					
		≤ 10W @ standby saving mode					
	OFF MODE CURRENT DRAW (Typ.)		1000/	0.404	000/	0.407	2001
	EFFICIENCY (Typ.) Note.1		90%	91%	89%	91%	92%
	BATTERY TYPES	Open & sealed lead	,				
BATTERY INPUT PROTECTION	FUSE	40A*12	40A*6	20A*6	40A*12	40A*6	20A*6
		11.3V	22.5V	45V	11.3V	22.5V	45V
	BAT. LOW SHUTDOWN Note.6		21V	42V	10.5V	21V	42V
	REVERSE POLARITY	By internal fuse oper	1				
	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
	OVER TEMP ERATORE	Protection type : Shut down o/p voltage, re-power on to recover					
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% ~ 150% load for 10 sec.					
	OVER LUAD (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		
ENVIRONMENT	WORKING TEMP. Note.2	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 Type G) 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					
	ISOLATION RESISTANCE	Bat I/P - AC O/P, Bat I/P - FG, AC O/P - FG: 100M ohms / 500VE			DC / 25°C / 70% RH		
	EMC EMISSION	Compliance to FCC class A			Compliance to EN55032 class A, 72/ 245/ CEE, 95/ 54/ CE, E-M		
	EMC IMMUNITY	None			Compliance to EN61000-4-2,3,4,5,6,8,11		
AC	CHARGE CURRENT (Typ.)	25A	12A	6A	25A	12A	6A
CHARGER	() ()	14.3V	28.5V	57V	14.3V	28.5V	57V
SOLAR	MAX OPEN CIRCUIT VOLTAGE	-	45V	75V	25V	45V	75V
PANEL	SHORT CIRCUIT CURRENT (max.)		1.51	1	1201	1.0.	1.0.
OTHERS	CONTROL WIRING Note.7						
	DIMENSION	466.8*283.5*100mm (L*W*H)					
	PACKING		,				
ЮТЕ	1.Efficiency is tested by 2100 2.Output derating capacity ref 3.Input derating capacity ref 4.DC current is tested by 300 5.All parameters not specifie 6.The tolerance of each volta 7.The cable is enclosed for the 3.THD is tested by 3000W, li	erenced by curve 2. DOW, linear load at 12V, 24V, 48V input voltage. d above are measured at rated load, 25°C of ambient temperature and set to factory setting. age value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V. the connection between TN-3000 and computer for software monitoring. near load at 13,26,52V input voltage.					
	9. Please do not turn on the il	on the inverter before start the engine if inverter connect to vehicle's battery directly. Note: all features are subject to change without notice. File Name: TN-3000-SPEC 2017-					





3000W True Sine Wave DC-AC Inverter with Solar Charger

TN-3000 series

■ Instructions for TN-3000 monitoring software

- 1. The monitoring software can be downloaded from product section (with TN-3000 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-3000 unit and PC

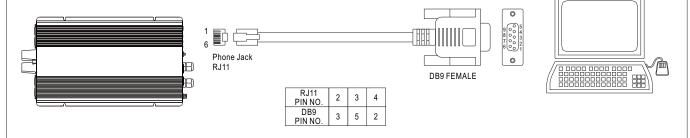


Figure 1

4. Explanation of Monitoring Manu

4.1 Main Page

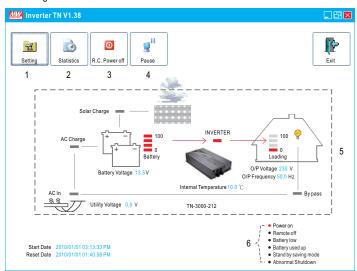


Figure 2

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



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4.2 Setting Page

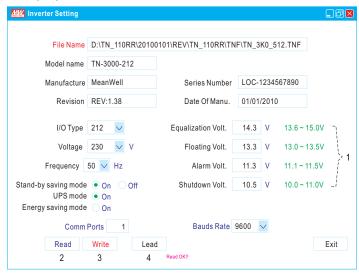


Figure 3

- 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

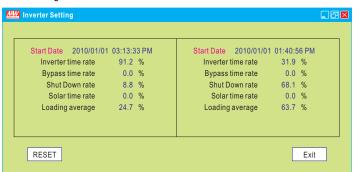


Figure 4

- 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
- 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.



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