



■ 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
- Support RS-232 communication (communication cable RJ11-RS232 included) Note.7
- 3 years warranty



SPECIFICATION

MODEL NO.	TN-3000-112□	TN-3000-124□	TN-3000-148□	TN-3000-212□	TN-3000-224□	TN-3000-248□
	□ = A, F, G			□ = B, C, D, G		
OUTPUT	RATED POWER (Typ.)					
	3000W					
	MAXIMUM OUTPUT POWER (Typ.)					
	3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W 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					
INPUT	FREQUENCY Note.11					
	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					
	True sine wave (THD<3%)					
	AC REGULATION (Typ.)					
	±3%					
	TRANSFER TIME (Typ.)					
	10ms inverter→—by pass					
BATTERY INPUT PROTECTION	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					
	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
DC CURRENT (Typ.) Note.4						
300A	150A	75A	300A	150A	75A	
NO LOAD DISSIPATION (Typ.)						
≤10W @ standby saving mode						
OFF MODE CURRENT DRAW (Typ.)						
≤1mA						
EFFICIENCY (Typ.) Note.1						
88%	90%	91%	89%	91%	92%	
BATTERY TYPES						
Open & sealed lead acid battery						
BATTERY INPUT PROTECTION	FUSE					
	40A*12	40A*6	20A*6	40A*12	40A*6	20A*6
	BAT. LOW ALARM Note.6					
	11.3V	22.5V	45V	11.3V	22.5V	45V
BAT. LOW SHUTDOWN Note.6						
10.5V	21V	42V	10.5V	21V	42V	
REVERSE POLARITY						
By internal fuse open						
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					
OVER LOAD (Typ.)						
105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.						
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 PROTECTION						
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), 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 A, 72/245/ CEE, 95/ 54/ CE, E-Mark, EAC TP TC 020			
EMC IMMUNITY						
Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020						
AC CHARGER	CHARGE CURRENT (Typ.)					
	25A	12A	6A	25A	12A	6A
	CHARGE VOLTAGE Note.6					
14.3V	28.5V	57V	14.3V	28.5V	57V	
SOLAR PANEL	MAX OPEN CIRCUIT VOLTAGE					
	25V	45V	75V	25V	45V	75V
SHORT CIRCUIT CURRENT (max.)						
30A						
OTHERS	CONTROL WIRING Note.7					
	RJ11 -RS232					
	DIMENSION					
466.8*283.5*100mm (L*W*H)						
PACKING						
12.9Kg; 1pcs/14Kg/1.49CUFT						
NOTE	<p>1.Efficiency is tested by 2100W, linear load at 13V, 26V, 52V input voltage.</p> <p>2.Output derating capacity referenced by curve 1.</p> <p>3.Input derating capacity referenced by curve 2.</p> <p>4.DC current is tested by 3000W, linear load at 12V, 24V, 48V input voltage.</p> <p>5.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting.</p> <p>6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V.</p> <p>7.The cable is enclosed for the connection between TN-3000 and computer for software monitoring.</p> <p>8.THd is tested by 3000W, linear load at 13,26,52V input voltage.</p> <p>9.Please do not turn on the inverter before start the engine if inverter connect to vehicle's battery directly.</p> <p>10.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).</p> <p>11.Type F for 60Hz only.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>					