



- 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


**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							
INPUT	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.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 INPUT PROTECTION	BATTERY TYPES Open & sealed Lead Acid							
	FUZE		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								
OUTPUT PROTECTION	OVER TEMPERATURE 82°C ± 5°C 82°C ± 5°C 96°C ± 5°C 68°C ± 5°C 68°C ± 5°C 68°C ± 5°C							
	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							
	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°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							
	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					
CHARGE VOLTAGE		14.3V ± 4%	28.5V ± 4%	57V ± 4%	14.3V ± 4%	28.5V ± 4%	57V ± 4%	
OTHERS	CONTROL WIRING Note.7		RJ11 -RS232					
	DIMENSION		420*220*88mm (L*W*H)					
	PACKING		6 RS5Ks 2pcs/15 7Kg/1 51C/1FT					