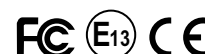




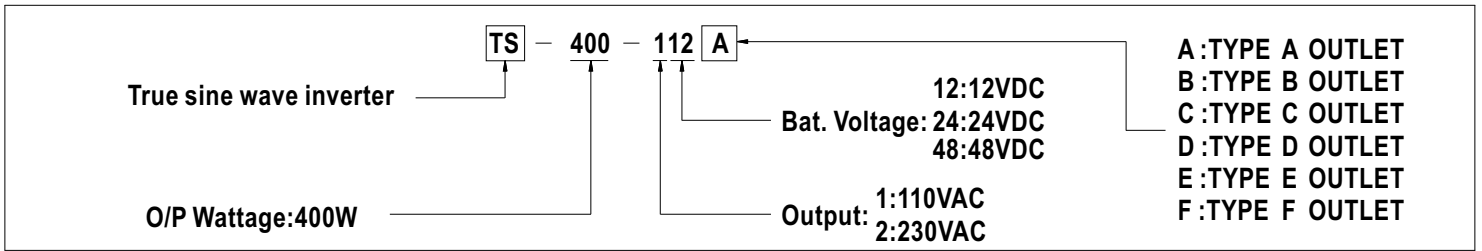
■ Features :

- True sine wave output (THD<3%)
- High surge power up to 800W
- High efficiency up to 88.5%
- Thermostatically controlled cooling fan
- Built-in remote ON-OFF control
- Front panel indicator for operation status
- Power ON-OFF switch
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- 3 years warranty



SPECIFICATION

MODEL	TS-400-112□	TS-400-124□	TS-400-148□	TS-400-212□	TS-400-224□	TS-400-248□	
OUTPUT	RATED POWER 400W						
	MAXIMUM OUTPUT POWER 460W for 180 sec. / 600W for 10 sec. / surge power 800W for 30 cycles(typ.)						
	AC VOLTAGE Factory setting set at 110VAC 100 / 110 / 115 / 120VAC selectable by setting button S.W			Factory setting set at 230VAC 200 / 220 / 230 / 240VAC selectable by setting button S.W			
	FREQUENCY 60±0.1Hz 50/60Hz selectable by setting button			50±0.1Hz 50/60Hz selectable by setting button			
	WAVEFORM True sine wave (THD<3%) at rated input voltage						
	AC REGULATION (Typ.) ±3.0% at rated input voltage						
FRONT PANEL INDICATOR Operation status ; Green : normal, Orange(flashing) : remote control OFF, Red : abnormal							
INPUT	BAT. VOLTAGE	12V	24V	48V	12V	24V	48V
	VOLTAGE RANGE (Typ.)	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.)	40A	20A	10A	40A	20A	10A
	NO LOAD CURRENT DRAW (Typ.)	1.25A	0.63A	0.32A	1.25A	0.63A	0.32A
	OFF MODE CURRENT DRAW	≤ 1mA					
	EFFICIENCY (Typ.) Note.1	84.5%	86%	87%	86%	87.5%	88.5%
BATTERY TYPES Open & sealed Lead Acid							
BATTERY INPUT PROTECTION	FUSE	40A*2	40A*1	20A*1	40A*2	40A*1	20A*1
	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%
	BAT. POLARITY	By internal fuse open					
OUTPUT PROTECTION	OVER TEMPERATURE	85°C ± 5°C	75°C ± 5°C	70°C ± 5°C	85°C ± 5°C	75°C ± 5°C	70°C ± 5°C
	Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH1 detect 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% ~ 150% load for 10 sec. Protection type : Shut down o/p voltage, re-power on to recover					
GFCI PROTECTION	Optional (Only type F)			None			
FUNCTION	REMOTE CONTROL Open : Normal work ; Short : Remote off						
ENVIRONMENT	WORKING TEMP. -10 ~ +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 Design refer to UL458			None			
	LVD None			EN60950-1			
	WITHSTAND VOLTAGE Bat. I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC						
	ISOLATION RESISTANCE Bat. I/P-AC O/P, AC O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	EMI CONDUCTION&RADIATION Compliance to FCC class A			Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark			
EMS IMMUNITY None							
Compliance to EN61000-4-2,3,8 ENV50204							
OTHERS	DIMENSION 205*158*67mm (L*W*H)						
	PACKING 1.73Kg; 6pcs/11.4Kg/1.55CUFT						
NOTE	1. Efficiency is tested by 300W, linear load at 12V/24V/48V input voltage. 2. All parameters not specified above are measured at rated load, 25°C of ambient temperature.						



■ AC Output Receptacles (optional)

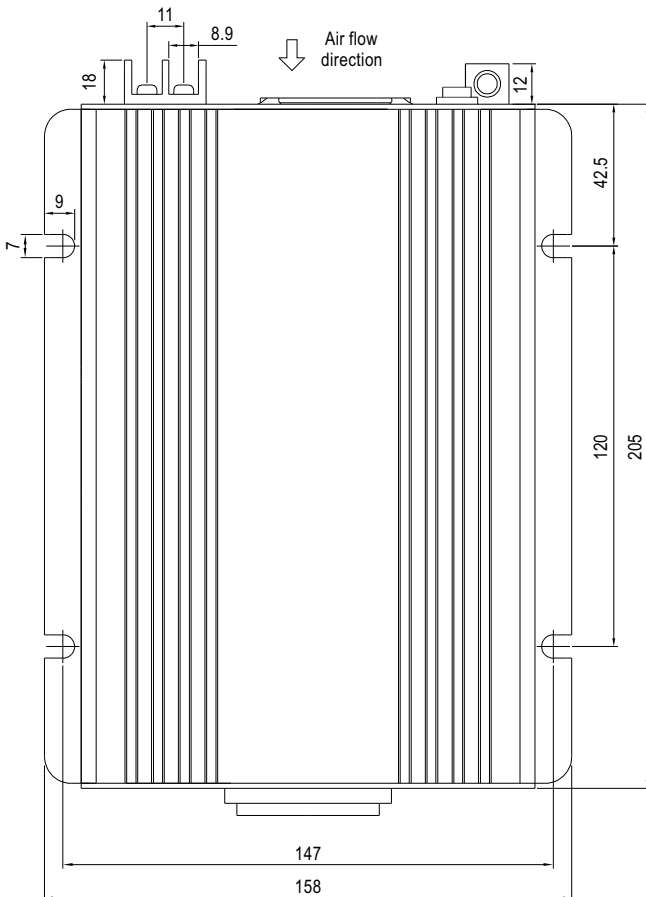
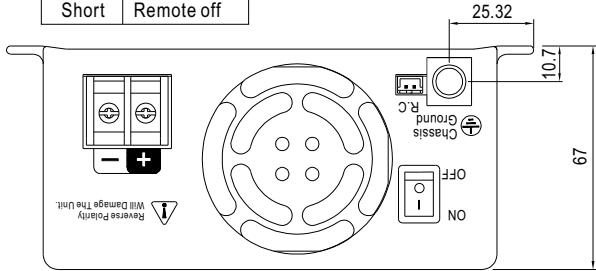
Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	FC

■ Mechanical Specification

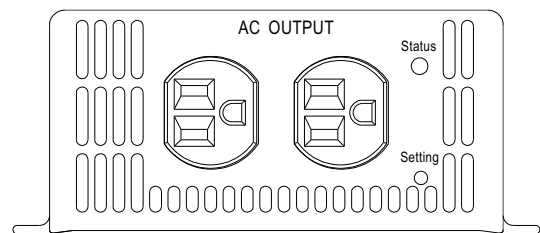
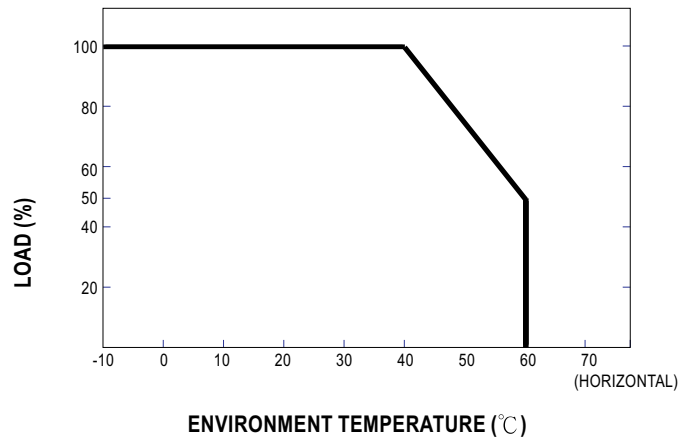
R.C Connector : JST B-XH or equivalent

Unit:mm

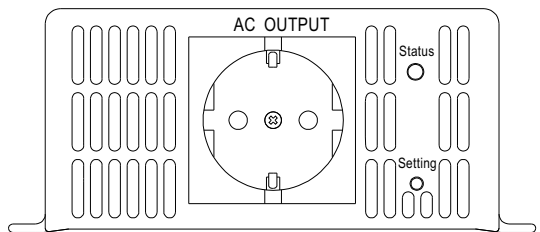
Open	Normal work
Short	Remote off



■ Derating Curve



Type-A



Type-B