



# 400W True Sine Wave DC-AC Power Inverter

# TS-400 series



### ■ 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



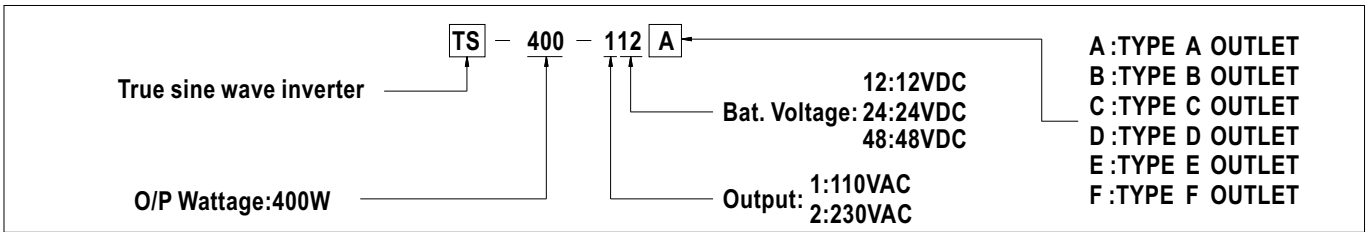
### SPECIFICATION

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			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	
	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
	OUTPUT SHORT		Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH1 detect power transistor					
	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	MTBF		104.7K hrs min. MIL-HDBK-217F (25°C)					
	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.							



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## AC Output Receptacles (optional)

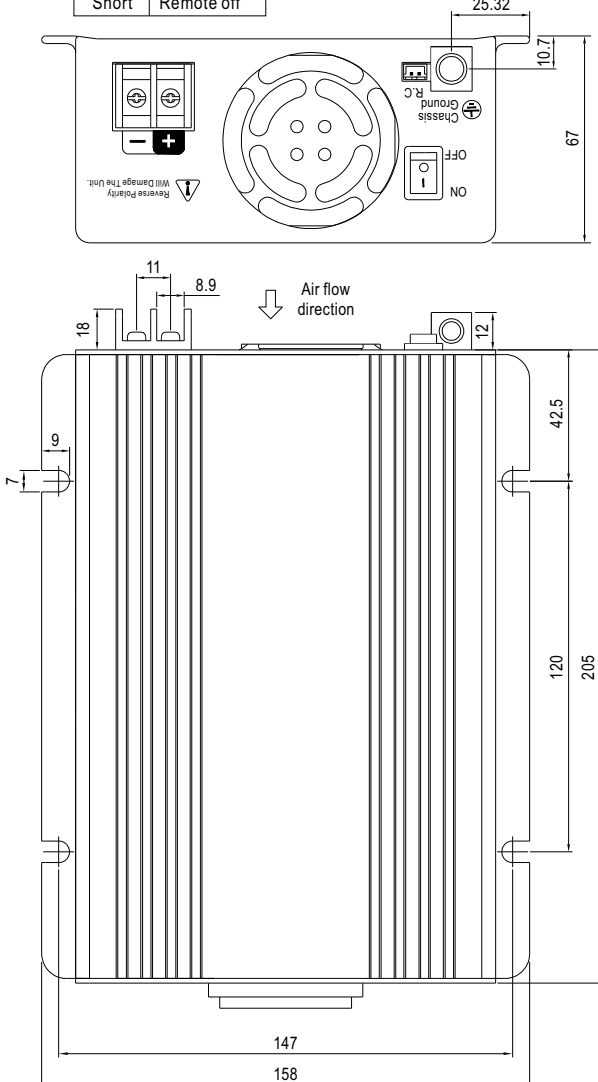
Receptacle type						
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate						

## Mechanical Specification

R.C Connector : JST B-XH or equivalent

Open	Normal work
Short	Remote off

Unit:mm



## Derating Curve

