



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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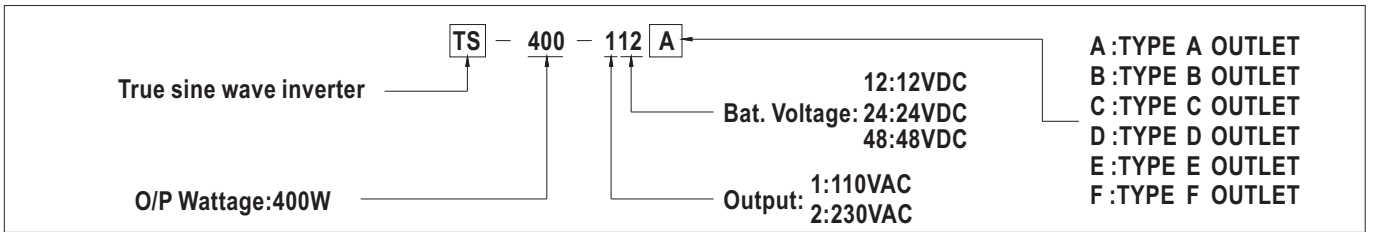
■ Features :

- 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 <small>Note.2</small>						True sine wave (THD<3%)	
	AC REGULATION <small>Note.2</small>						±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.) <small>Note.3</small>		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.) <small>Note.1</small>		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 non-condensing					
	VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS		EAC TP TC 004, Design refer to UL458		EAC TP TC 004			
	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					
	EMC EMISSION		Compliance to FCC class A, EAC TP TC 020			Compliance to EN55032 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark, EAC TP TC 020		
	EMC IMMUNITY		Compliance to EAC TP TC 020			Compliance to EN61000-4-2,3,8, EAC TP TC 020		
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 13V/26V/52V input voltage. 2.AC regulation and THD are tested by 400W, linear load at 13V/26V/52V input voltage. 3.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V. 4.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting. 5.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).							



■ AC Output Receptacles (optional)

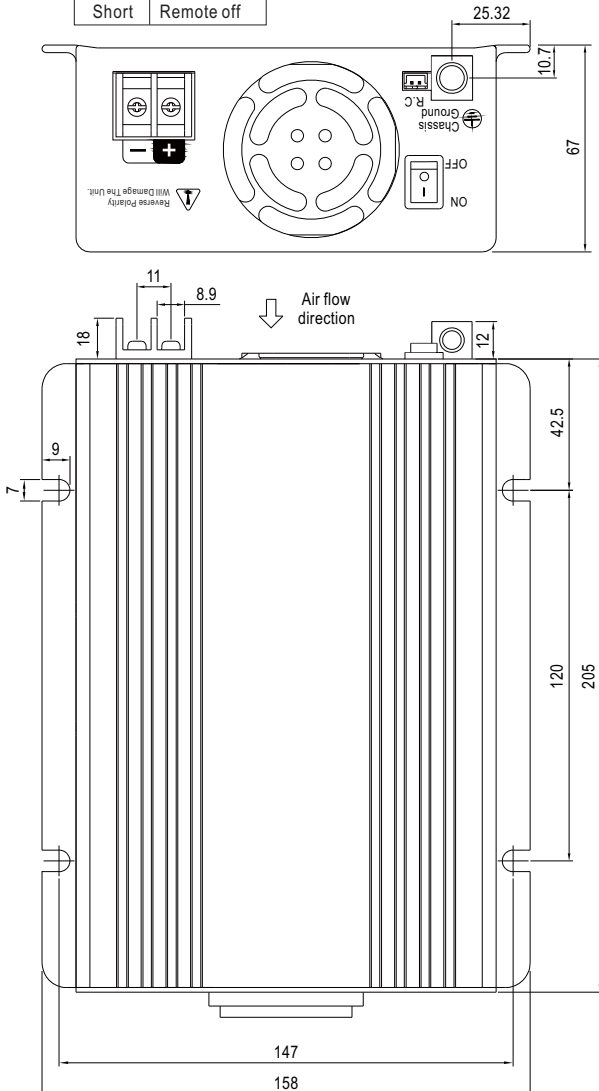
Receptacle type						
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	FC

■ Mechanical Specification

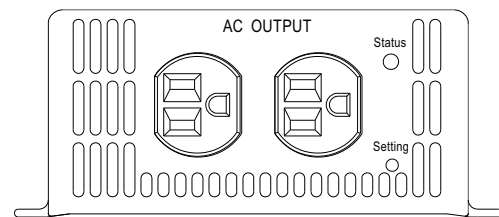
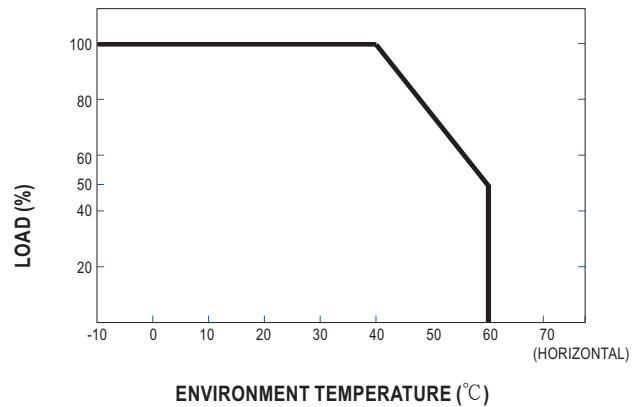
R.C Connector : JST B-XH or equivalent

Open	Normal work
Short	Remote off

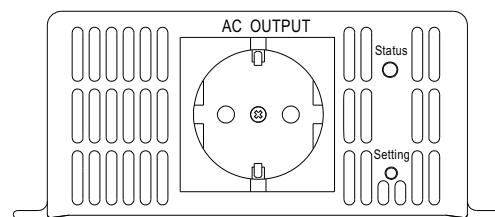
Unit:mm



■ Derating Curve



Type-A



Type-B