



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

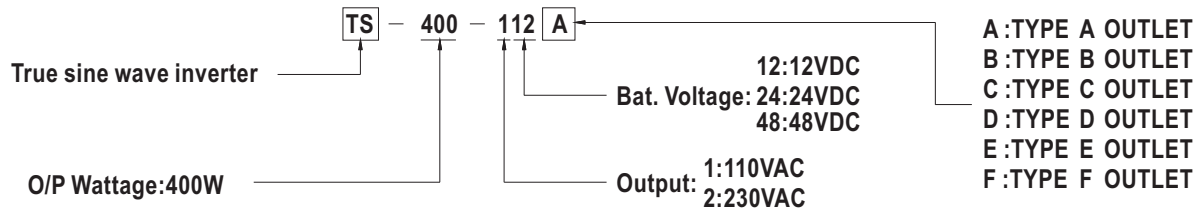


■ GTIN CODE

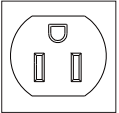
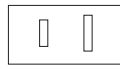
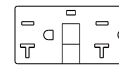
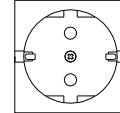
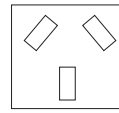
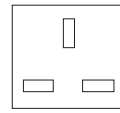
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

SPECIFICATION

MODEL NO.		TS-400-112□	TS-400-124□	TS-400-148□	TS-400-212□	TS-400-224□	TS-400-248□	
		□ = A, E, F			□ = B, C, D			
OUTPUT (Unit: r)	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	Note.6	60±0.1Hz 50/60Hz selectable by setting button		50±0.1Hz 50/60Hz selectable by setting button			
	WAVEFORM	Note.2	True sine wave (THD<3%)					
	AC REGULATION	Note.2	±3.0% at rated input voltage					
	FRONT PANEL INDICATOR	Operation status ; Green : normal, Orange(flashng) : remote control OFF, Red : abnormal						
INPUT	BAT. VOLTAGE	12V	24V	48V	12V	24V	48V	
	VOLTAGE RANGE (Typ.)	Note.3	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℃ ± 5℃	75℃ ± 5℃	70℃ ± 5℃	85℃ ± 5℃	75℃ ± 5℃	70℃ ± 5℃	
		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℃ @ 100% load ; +60℃ @ 50% load						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-30 ~ +70℃ / -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 approved, Design refer to UL458, BS EN/EN62368-1			IEC62368-1 CB, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1			
	WITHSTAND VOLTAGE	Bat. I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC						
	ISOLATION RESISTANCE	Bat. I/P-AC O/P, Bat. I/P-FG, AC O/P-FG:100M Ohms / 500VDC / 25℃ / 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 EAC TP TC 020			Compliance to BS EN/EN61000-4-2,3,8, BS EN/EN55035, EAC TP TC 020			
OTHERS	MTBF	865.3K hrs min. Telcordia SR-332 (Bellcore) ; 80.9K hrs min.			MIL-HDBK-217F (25℃)			
	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℃ of ambient temperature and set to factory setting. 5.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 6.Type F for 60Hz only. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							



AC Output Socket (optional)

MODEL NO.	TS-400-112	TS-400-124	TS-400-148	TS-400-212	TS-400-224	TS-400-248
Socket type						
	TYPE-A	TYPE-E	TYPE-F	TYPE-B	TYPE-C	TYPE-D
	Standard	Optional	Optional	Standard	Optional	Optional
Country	USA	JAPAN	GFCI(60Hz)	EUROPE	AUSTRALIA	U.K
Certificate		None				

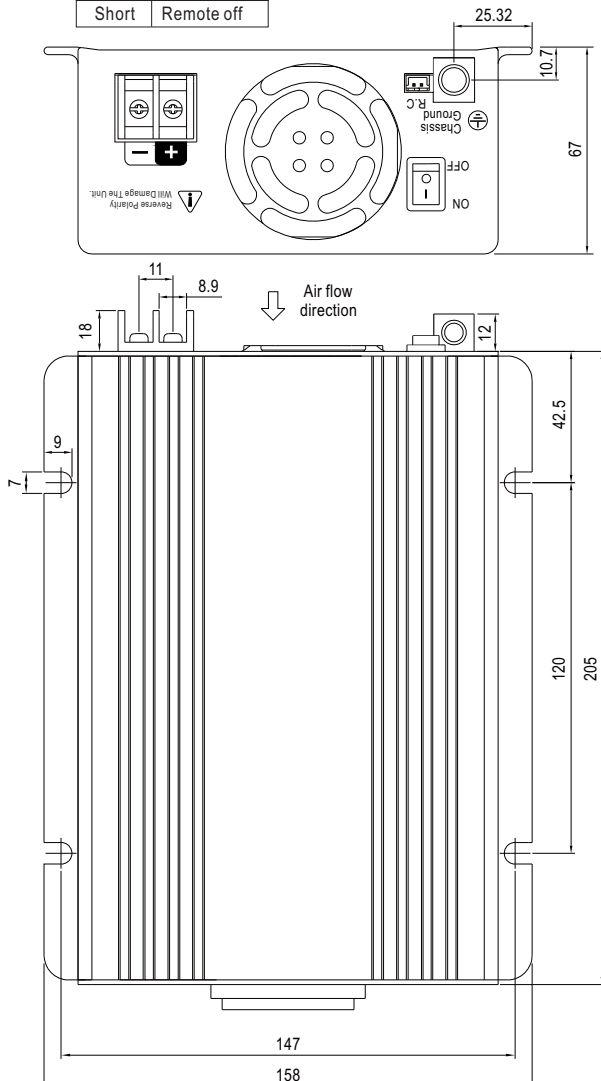
Mechanical Specification

(Unit: mm , tolerance ± 1 mm)

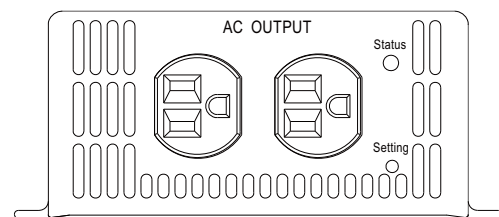
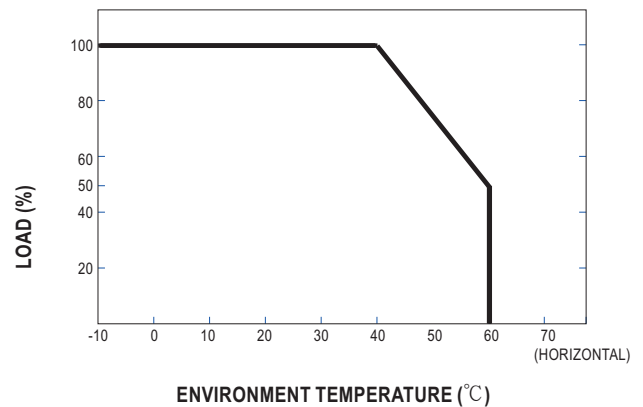
Case No.805A

R.C Connector : JST B-XH or equivalent

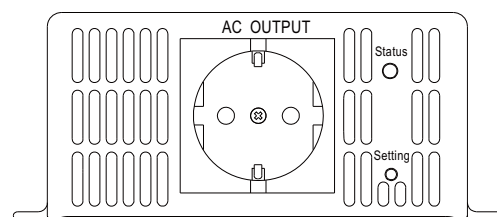
Open	Normal work
Short	Remote off



Derating Curve



Type-A



Type-B

Mouser Electronics

Authorized Distributor

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[TS400-224F](#) [TS-400-112A](#) [TS-400-124A](#) [TS-400-148A](#)