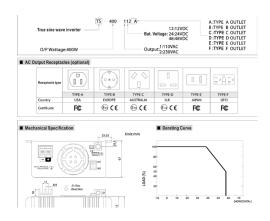


400W True Sine Wave DC-AC Power Inverter

TS-400 series



- True sine wave output (THD<3%)</p>
- High surge power up to 800W
- High efficiency up to 87%
- Power ON-OFF switch
- Front panel indicator for operation status
- Thermostatically Controlled Cooling Fan
- 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.

FC (E

Model Number	Input Voltage Range	Input Amps	Bat.Voltage	Bat. Low Alarm	Bat. Low Shutdown	Fuse	Efficiency
			-				-
TS-400-112	10.5~15Volts	40Amps	12Volts	11.3±4%	10.5±4%	40Amps*2	84.5%
TS-400-124	21~30Volts	20 Amps	24Volts	22.5±4%	21±4%	40Amps*1	86%
TS-400-148	42~60Volts	10 Amps	48Volts	45±4%	42±4%	25Amps*1	87%

ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458



400W True Sine Wave DC-AC Power Inverter

TS-400 series

Off Mode Current Draw	≤ 1 mAmps	
Battery Types	Open & sealed Lead Acid	
Input Voltage Range	See Selection Chart	
Efficiency (Note 1)	See Selection Chart	
Fuse	See Selection Chart	
Bat. Low Alarm	See Selection Chart	
Bat. Low Shutdown	See Selection Chart	
Bat. Polarity	By internal fuse open	

1.25 Amps

0.63 Amps

0.32 Amps

OUTPUT	SPECIFICATIONS	3

TS-400-112:

TS-400-124

TS-400-148

No Load Current Draw

INPUT SPECIFICATIONS

Max Output Power	460W for 180 S/600W for 10S /		
	surge power 800W for 30 cycles (typ.)		
AC Voltage			
TS-400-1xx:	100/110/115/120VAC select by set. button		
	Factory set at 110VAC		
Frequency			
TS-400-1xx:	60 ±0.1Hz 50/60Hz select by set. button		
Waveform	True sine wave (THD<3%) at rated input		
AC Regulation (typ.)	±3.0% at rated input		
Front Panel Indicator			
Operation Status	Green: Normal		
	Flashing Orange: Remote Control Off		
	Red: Abnormal		
Over Current Protection	105~115% for 180S,115~150% for 10S		
	Shutdown o/p voltage, re-power		
Over Temperature Protection			
TS-400-112	85°C±5°C		
TS-400-124	75°C±5°C		
TS-400-148	70°C±5°C		
	Shutdown o/p voltage, repower to recover		
	by internal RTH1 detect power MOSFET		
Output Short	Shutdown o/p voltage, repower to recover		

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

GENERAL SPECIFICATIONS

Safety		
	TS-400-112/124:	Design refer to UL458
Insulation	n Resistance	
	AC O/P-FG, Bat I/	/P-AC: 100MΩ/500VDC/25°C/70% RH
EMI		
	TS-400-1xx:	Compliance to FCC class A
Isolation		3000VAC Bat I/P - AC O/P
		1500VACAC O/P - FG

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +40°C @ 100% load			
	+60°C @ 50% load			
Storage Temperature	-30°C ~ +70°C /-22~+158°F 10~95% RH			
Relative Humidity	20 to +90% RH non cond			
Vibration	10~500Hz, 3G10min./1cycle, period for			
	60min. each along X, Y, Z axes			

PHYSICAL SPECIFICATIONS

Size

0120	
Millimeters	205 x 158 x 67
Inches	8.07" x 6.22" x 2.64"

NOTE

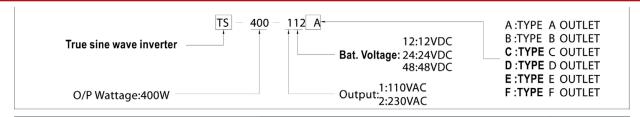
1.Efficiency is tested by 300W, linear load at 12V, 24V, 48V input voltage.

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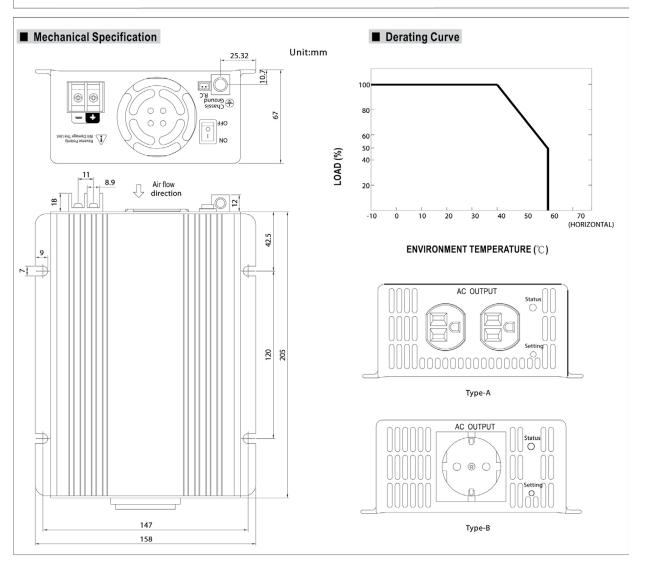
400W True Sine Wave DC-AC Power Inverter

TS-400 series



■ AC Output Receptacles (optional)

Receptacle type		000				
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	F©	€13 (€	€13 (€	€13 (€	F©	F©



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