Astrodyne

1000W True Sine Wave DC-AC Power Inverter

TS-1000 series

- True sine wave output (THD<3%)
- High surge power up to 2000W
- High efficiency up to 92%
- Power ON-OFF switch
- Standby saving mode can be selected
- Front panel indicator for operation status
- Built-in fan ON-OFF control function
- Protections: Bat. low alarm / Bat. low shutdown / Over temp/ Output short / Input reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.

Model Number	Input Volts	Input Amps	Input Voltage Range	Efficiency	Bat. Low Alarm	Bat. Low Shutdown	Fuse
Single OUTPUT							
TS-1000-112F	12 Volts(DC)	100Amps	10.5~15Volts(DC)	88%	11.3±4%	10.5±4%	40Amps*4
TS-1000-124F	24 Volts(DC)	50 Amps	21~30Volts(DC)	89%	22.5±4%	21±4%	40Amps*4
TS-1000-148F	48 Volts(DC)	25 Amps	42~60Volts(DC)	90%	45±4%	42±4%	20Amps*4

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

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INPUT SPECIFICATIONS

No Load Dissipation	≤ 6W @ standby saving mode
Off Mode Current Draw	≤ 1 mAmps
Battery Types	Open & sealed lead Acid
Reverse Polarity	By internal fuse open
Input Voltage Range	See Selection Chart
Efficiency typ. (Note 1)	See Selection Chart
Fuse	See Selection Chart
Bat. Low Alarm	See Selection Chart
Bat. Low Shutdown	See Selection Chart

OUTPUT SPECIFICATIONS

Max Output Power (Typ.)	1150W for 180 S/1500W for 10S /
	surge power 2000W for 30 cycles
AC Voltage	
TS-1000-1xx:	Factory setting set @ 110VAC
	100/110/115/120VAC select by S.W
Frequency	
TS-1000-1xx:	60 0.1Hz 50/60Hz select by S.W
Waveform	True sine wave (THD<3%)
	at rated input voltage
AC Regulation (typ.)	±3.0%
Saving Mode (typ.)	Load ≤5W will be changed to
	standby mode
Front Panel Indicator	Battery voltage level, output load level,
	saving mode, fault and operation status
Over Current Protection	105~115% for 180S,115~150% for 10S
	Shutdown o/p voltage, re-power
Over Temperature Protection	
TS-1000-1xx::	90°C±5°C
	Shutdown o/p voltage, repower after
	cool down; by internal RTH3 detect on
	heatsink of power diode
Output Short	Shutdown o/p voltage, repower
GFCI Protection	Only type F

GENERAL SPECIFICATIONS

Safety TS-1000-112/124 Only	
	UL458 (only "GFCI" receptacles-types F)
Insulation Resistance	
AC O/P-FG, Bat I/P-FG: 100MΩ/500VDC/25°C/70% RH	
EMI	
TS-1000-1xx:	Compliance to FCC class A
Isolation	3000VAC Bat I/P - AC O/P
	1500VACAC O/P - FG

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0°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
Cooling	Loading controlled cooling fan for
	GFCI receptacle-type F
	Thermostatically controlled cooling fan for
	others

PHYSICAL SPECIFICATIONS

Size		
	Millimeters	345 x 184 x 70
	Inches	13.58" x 7.24" x 2.76"
Weight		151.68 oz (4300g)

NOTE

1.Efficiency is tested by 750W, linear load at 13V, 26V, 52V input voltage.

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

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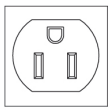
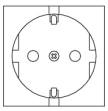
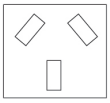
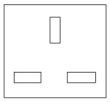
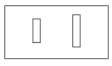
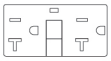
TS — 1000 — 112 — A

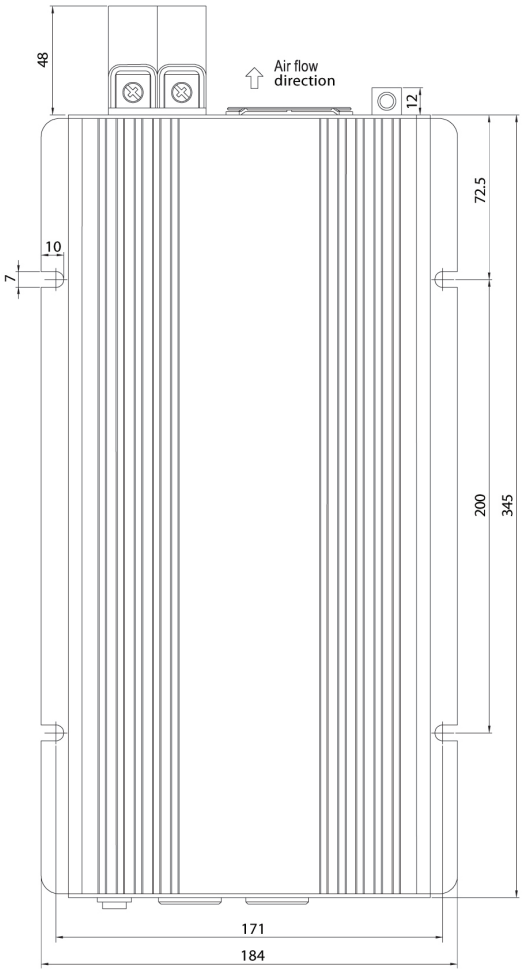
- TS: True sine wave inverter
- 1000: O/P Wattage:1000W
- 112: Output: 1:110VAC, 2:230VAC; Bat. Voltage: 12:12VDC, 24:24VDC, 48:48VDC
- A: A :TYPE A OUTLET; B :TYPE B OUTLET; C :TYPE C OUTLET; D :TYPE D OUTLET; E :TYPE E OUTLET; F :TYPE F OUTLET

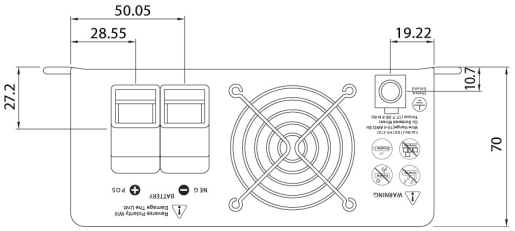
■ AC Output Receptacles (optional)

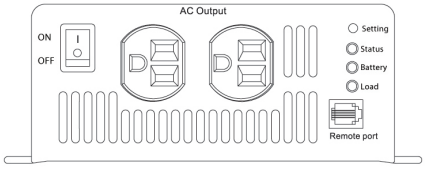
Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	c UL us (Expect for 48V input) FC

■ Mechanical Specification

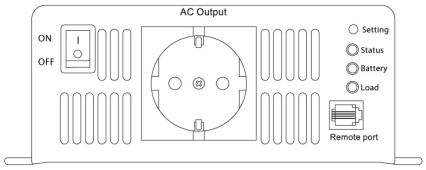
Unit:mm







Type-A



Type-B