



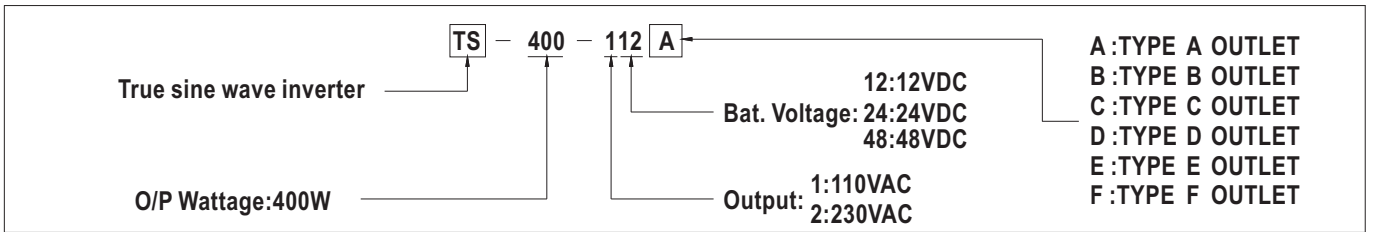
■ Features :

- 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 | | | | | |
| | 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 | | | | | |
| | EMC EMISSION | | Compliance to FCC class A | | | Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark | | |
| | EMC IMMUNITY | | None | | | Compliance to EN61000-4-2,3,8 | | |
| 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. | | | | | | | |



■ AC Output Receptacles (optional)

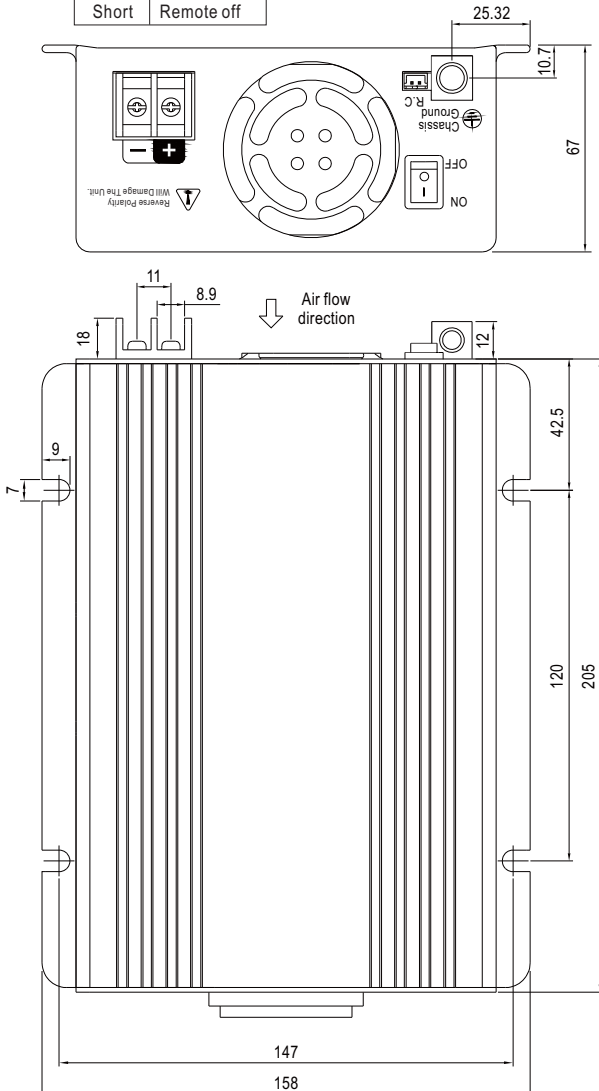
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|-----------------|--------|--------|-----------|--------|--------|--------|
| Receptacle type | | | | | | |
| | TYPE-A | TYPE-B | TYPE-C | TYPE-D | TYPE-E | TYPE-F |
| Country | USA | EUROPE | AUSTRALIA | U.K | JAPAN | GFCI |
| Certificate | FC | E13 CE | E13 CE | E13 CE | FC | FC |

■ Mechanical Specification

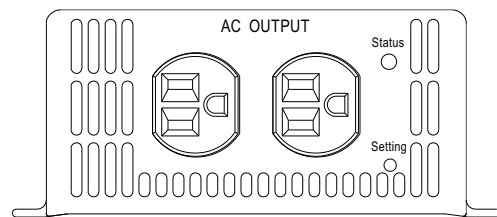
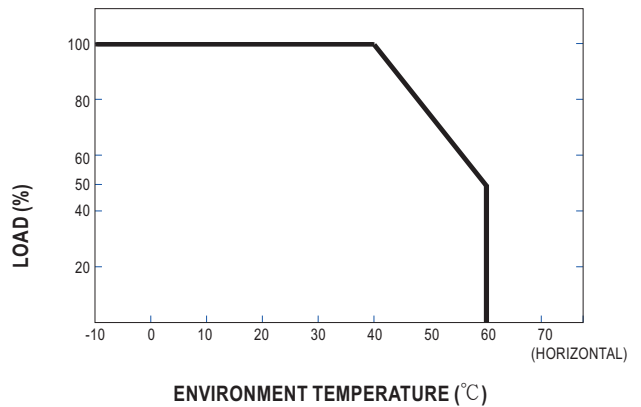
R.C Connector : JST B-XH or equivalent

| | |
|-------|-------------|
| Open | Normal work |
| Short | Remote off |

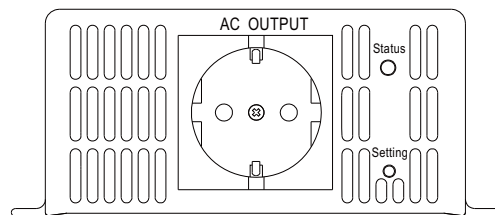
Unit:mm



■ Derating Curve



Type-A



Type-B

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mean Well:](#)

[TS-400-112A](#) [TS-400-148A](#)