



- True sine wave output (THD<3%)
- High surge power up to 400W
- High efficiency up to 88%
- Power ON-OFF switch
- 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.
- Cooling by free air convection



| Model Number | Input Voltage Range | Input Amps | Bat.Voltage | Bat. Low Alarm | Bat. Low Shutdown | Fuse | Efficiency |
|--------------|---------------------|------------|-------------|----------------|-------------------|----------|------------|
| TS-200-112 | 10.5~15Volts | 20Amps | 12Volts | 11.3±4% | 10.5±4% | 30Amps*2 | 86% |
| TS-200-124 | 21~30Volts | 10 Amps | 24Volts | 22.5±4% | 21±4% | 30Amps*1 | 87.5% |
| TS-200-148 | 42~60Volts | 5 Amps | 48Volts | 45±4% | 42±4% | 15Amps*1 | 88% |



200W True Sine Wave DC-AC Power Inverter

TS-200 series

INPUT SPECIFICATIONS

| | |
|-----------------------|-------------------------|
| 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 |
| No load Power Draw | |
| TS-200-112: | 1.25 Amps |
| TS-200-124 | 0.62 Amps |
| TS-200-148 | 0.31 Amps |

OUTPUT SPECIFICATIONS

| | |
|-----------------------------|--|
| Max Output Power | 230W for 180 S/300W for 10S / surge power 400W for 30 cycles |
| AC Voltage | |
| TS-200-1xx: | 100/110/115/120VAC select by set. button Factory set at 110VAC |
| Frequency | |
| TS-200-1xx: | 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-200-112 | 85°C±5°C |
| TS-200-124/148 | 80°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-200-112/124: | Design refer to UL458 |
| Insulation Resistance | |
| AC O/P-FG, Bat I/P-AC: | 100MΩ/500VDC/25°C/70% RH |
| EMI | |
| TS-200-1xx: | Compliance to FCC class A |
| Isolation | 3000VAC Bat I/P - AC O/P 1500VACAC O/P - FG |

ENVIRONMENTAL SPECIFICATIONS

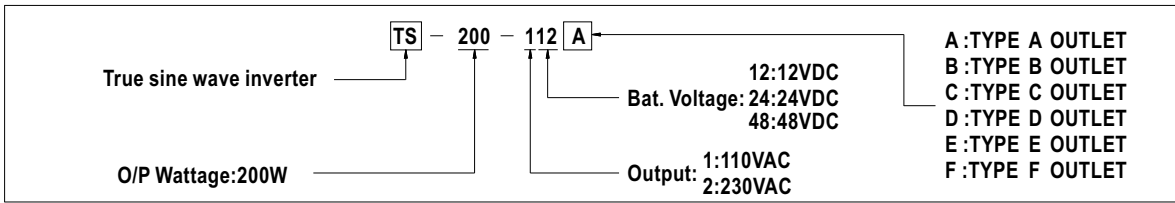
| | |
|---------------------|---|
| Oper. Temperature | -10°C to +35°C @ 100% load +60°C @ 50% load |
| Storage Temperature | -30°C ~ +70°C /-22~+158°F 10~95% RH |
| Relative Humidity | 20 to +90% RH non cond |
| Vibration | 10~500Hz, 3G10min./1cycle, period for 60min. each along X, Y, Z axes |

PHYSICAL SPECIFICATIONS

| | |
|-------------|-----------------------|
| Size | |
| Millimeters | 205 x 158 x 59 |
| Inches | 8.07" x 6.22" x 2.32" |

NOTE

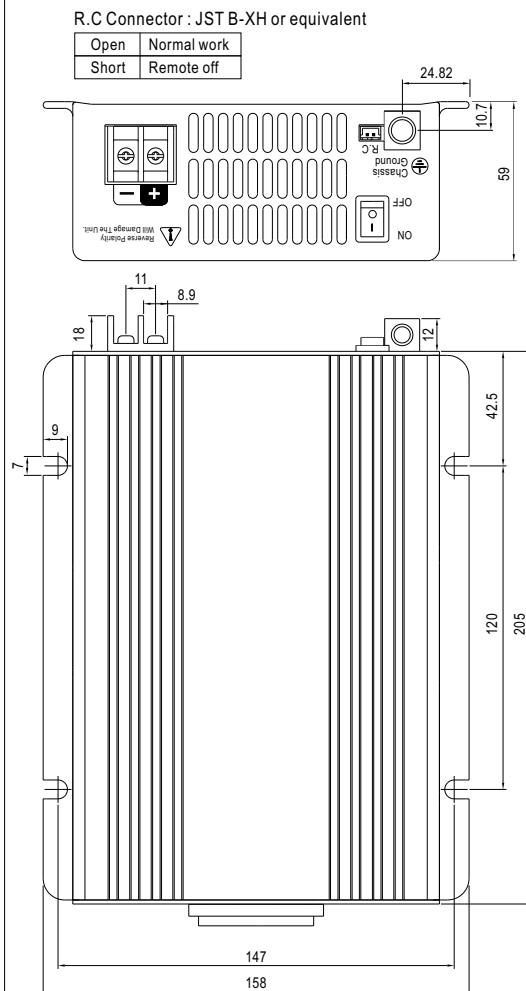
1. Efficiency is tested by 200W, linear load at 12V, 24V, 48V input voltage.



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 | FC |

Mechanical Specification



Derating Curve

