



- True sine wave output (THD<3%)
- High surge power up to 1400W
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Built-in fan ON-OFF control function
- Protections: Bat. low alarm / Bat. low shutdown / Over temp/ Output short / Reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- GFCI Protection



| Model Number | Input Volts | Input Amps | Efficiency | Bat. Low Alarm | Bat. Low Shutdown | Fuse |
|--------------|--------------|------------|------------|----------------|-------------------|----------|
| TS-700-112F | 12 Volts(DC) | 75 Amps | 86% | 11.3±4% | 10.5±4% | 40Amps*3 |
| TS-700-124F | 24 Volts(DC) | 38 Amps | 88% | 22.5±4% | 21±4% | 30Amps*2 |
| TS-700-148F | 48 Volts(DC) | 19 Amps | 89% | 45±4% | 42±4% | 20Amps*2 |



700W True Sine Wave DC-AC Power Inverter

TS-700 series

INPUT SPECIFICATIONS

| | |
|--------------------------|----------------------------|
| Input Voltage Range | |
| 12Volts(DC): | 10.5~15Volts(DC) |
| 24Volts(DC): | 21~30Volts(DC) |
| 48Volts(DC): | 42~60Volts(DC) |
| No Load Dissipation | ≤ 6W @ standby saving mode |
| Off Mode Current Draw | ≤ 1 mAmps |
| Battery Types | Open & sealed Lead Acid |
| Battery Polarity | By internal fuse open |
| 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.) | 800W for 180S/1050W for 10S / surge power 1400W for 30 cycles |
| AC Voltage | 100/110/115/120VAC select by S.W Factory setting @ 110VAC |
| Frequency | 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 | 80°C±5°C Shutdown o/p voltage, re-power; by internal RTH3 detect on heatsink of power diode |
| Output Short | Shutdown o/p voltage, re-power |
| GFCI Protection | Only type F |

GENERAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------------|---|
| Oper. Temperature (Not 3) | 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 |

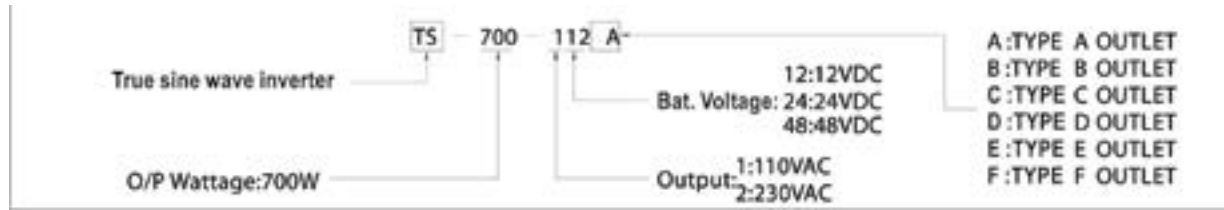
PHYSICAL SPECIFICATIONS

| | |
|-------------|------------------------|
| Size | |
| Millimeters | 295 x 184 x 70 |
| Inches | 11.61" x 7.24" x 2.76" |
| Weight | 134.04 oz (3800g) |

NOTE

1. Efficiency is tested by 530W, linear load at 13V, 26V, 52V input voltage.

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



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 | E1 CE | E1 CE | E1 CE | FC | FC |

Mechanical Specification

