



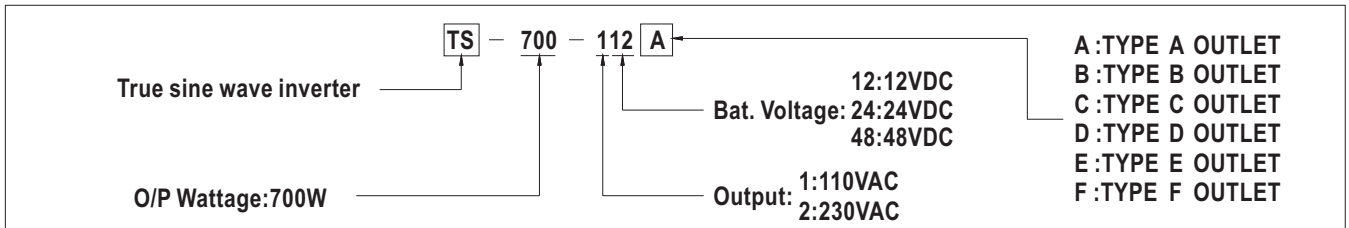
■ Features :

- 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 voltage / Over temp. / Output short / Reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- 3 years warranty



SPECIFICATION

| MODEL | TS-700-112□ | TS-700-124□ | TS-700-148□ | TS-700-212□ | TS-700-224□ | TS-700-248□ | |
|--------------------------|---|-------------|-------------|---|---------------------------|---|--|
| OUTPUT | RATED POWER (Typ.) | | | | | | 700W |
| | MAXIMUM OUTPUT POWER (Typ.) | | | | | | 800W for 180 sec. / 1050W for 10 sec. / surge power 1400W for 30 cycles |
| | 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 S.W |
| | WAVEFORM <small>Note.6</small> | | | | | | True sine wave (THD<3%) |
| | AC REGULATION (Typ.) | | | | | | ±3.0% |
| | SAVING MODE (Typ.) | | | | | | Default disabled. Load ≤ 5W will be changed to standby mode |
| FRONT PANEL INDICATOR | | | | | | Battery voltage level, output load level, saving mode, fault and operation status | |
| INPUT | BAT. VOLTAGE | | | | | | 12V 24V 48V 12V 24V 48V |
| | VOLTAGE RANGE (Typ.) <small>Note.3,5</small> | | | | | | 10.5 ~ 15VDC 21 ~ 30VDC 42 ~ 60VDC 10.5 ~ 15VDC 21 ~ 30VDC 42 ~ 60VDC |
| | DC CURRENT (Typ.) | | | | | | 75A 38A 19A 75A 38A 19A |
| | NO LOAD DISSIPATION | | | | | | ≤ 6W @ standby saving mode |
| | OFF MODE CURRENT DRAW | | | | | | ≤ 1mA |
| | EFFICIENCY (Typ.) <small>Note.1</small> | | | | | | 86% 88% 89% 89% 90% 91% |
| BATTERY TYPES | | | | | | Open & sealed Lead Acid | |
| BATTERY INPUT PROTECTION | FUSE | | | | | | 40A*3 30A*2 20A*2 40A*3 30A*2 20A*2 |
| | 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 | | | 80°C ± 5°C | | | 75°C ± 5°C |
| | Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power diode | | | | | | |
| | 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 | |
| ENVIRONMENT | WORKING TEMP. <small>Note.4</small> | | | | | | 0 ~ +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 | | | | | | AC O/P-FG , Bat I/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 | | | | | | 74.4K hrs min. MIL-HDBK-217F (25°C) |
| | DIMENSION | | | | | | 295*184*70mm (L*W*H) |
| | PACKING | | | | | | 3.8Kg; 2pcs/8.6Kg/1.27CUFT |
| NOTE | <p>1.Efficiency is tested by 530W, linear load at 13V, 26V, 52V input voltage.</p> <p>2.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting.</p> <p>3.Input derating capacity referenced by curve 2.</p> <p>4.Output derating capacity referenced by curve 1.</p> <p>5.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V</p> <p>6.THd is tested by 700W, linear load at 13,26,52V input voltage.</p> | | | | | | |



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

Unit:mm

50.05
28.55
19.22
27.2
70
10.7
48
7
10
171
184
180
295
57.5
12

Air flow direction

Derating Curve

CURVE 1

| Ambient Temperature (°C) | Load (%) |
|--------------------------|----------|
| 0 | 100 |
| 40 | 100 |
| 60 | 50 |
| 70 | 0 |

CURVE 2

| Battery Input Voltage (V) | Load (%) |
|---------------------------|----------|
| 10.5VDC | 80 |
| 11.5VDC | 100 |
| 15VDC (HORIZONTAL) | 100 |
| 21VDC | 100 |
| 23VDC | 100 |
| 23VDC | 100 |
| 30VDC | 100 |
| 42VDC | 100 |
| 46VDC | 100 |
| 60VDC | 100 |

Type-A

Type-B