



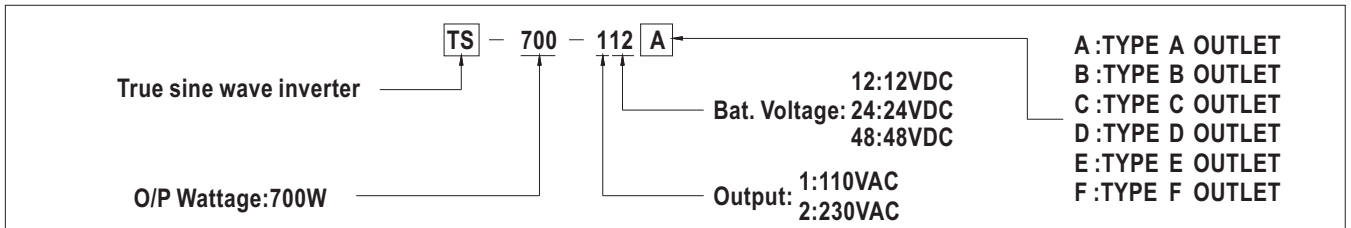
■ Features :

- 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			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.TH.D 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
12
Air flow direction

Derating Curve

CURVE 1

Ambient Temperature (°C)	Load (%)
0	100
35	100
60	50
60	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