



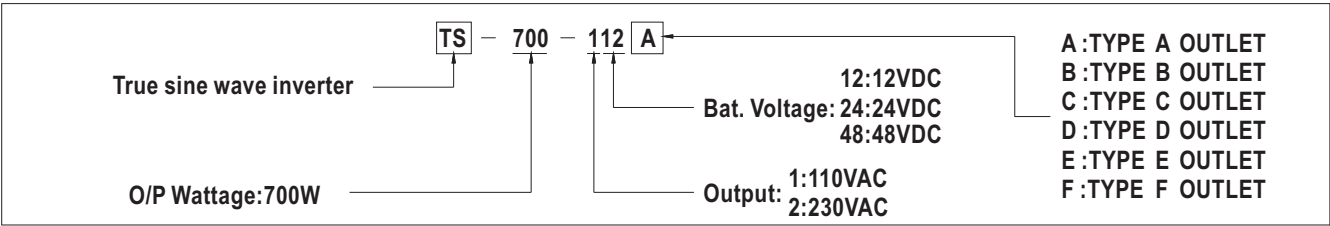
■ Features :

- 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						50±0.1Hz 50/60Hz selectable by setting button S.W					
	WAVEFORM						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.)		Note.3,5 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 (Typ.)		≤6W @ standby saving mode															
	OFF MODE CURRENT DRAW		≤1mA															
	EFFICIENCY (Typ.)		Note.1 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.															
	GFCI PROTECTION		Optional (Only type F)				None											
ENVIRONMENT	WORKING TEMP.		Note.4 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						

Mechanical Specification

Unit:mm

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

Air flow direction

Derating Curve

CURVE 1

Ambient Temperature (°C)	Load (%)
0	100
35	100
55	50
60	0

CURVE 2

Battery Input Voltage (V)	Load (%)
10.5VDC	80
11.5VDC	100
15VDC	100

(HORIZONTAL)
21VDC, 23VDC, 29VDC, 30VDC, 42VDC, 46VDC, 60VDC

Type-A

Type-B

AC Output

On Off

Setting Status Battery Load Remote port