



700W True Sine Wave DC-AC Power Inverter

TS-700 series



■ Features :

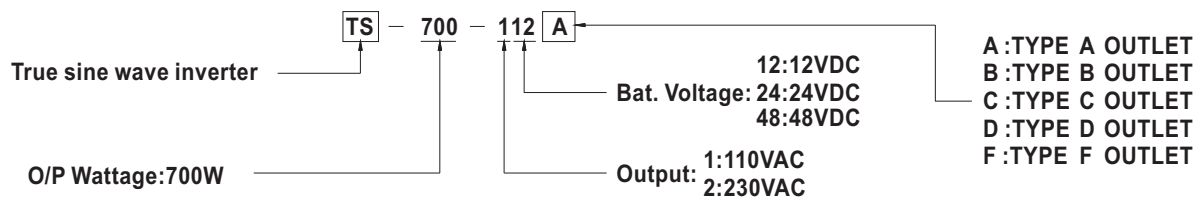
- True sine wave output (THD<3%)
- High surge power up to 1400W
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Built-in fan ON-OFF control function
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage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

User's Manual

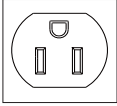
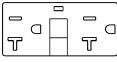
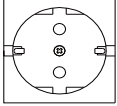
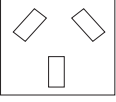
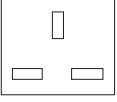


SPECIFICATION

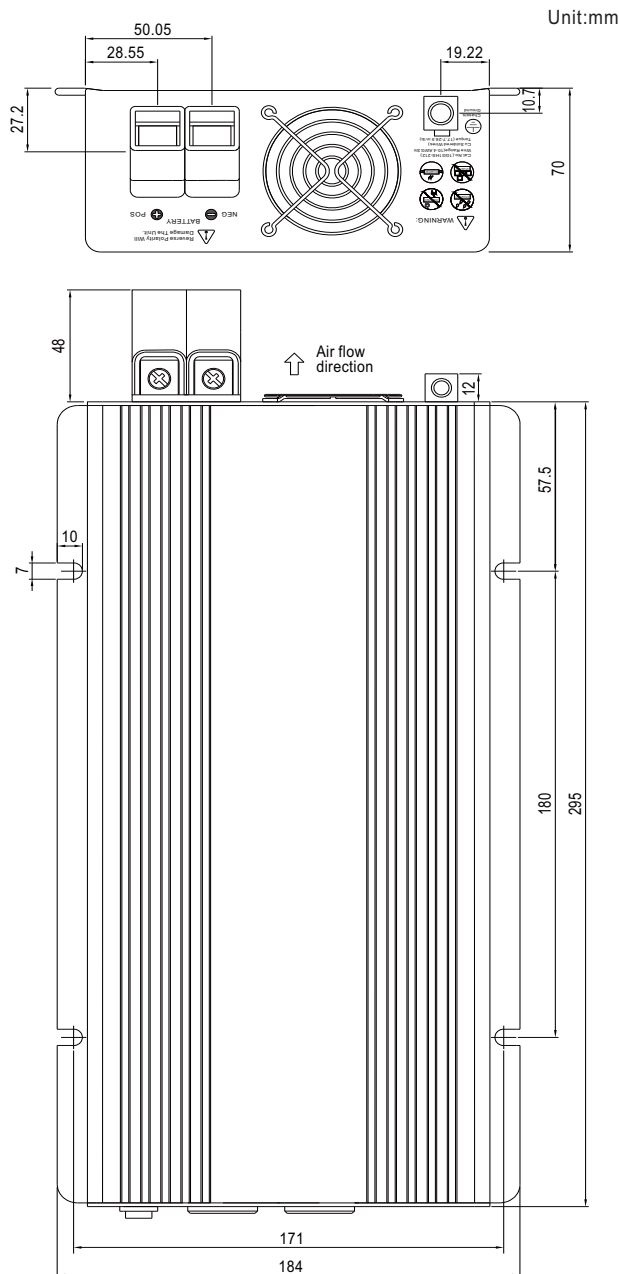
SPECIFICATION		TS-700-112□		TS-700-124□		TS-700-148□		TS-700-212□		TS-700-224□		TS-700-248□		
MODEL NO.		□ = A, F						□ = B, C, D						
OUTPUT	RATED POWER (Typ.)	700W												
	MAXIMUM OUTPUT POWER (Typ.)	800W for 180 sec. / 1050W for 10 sec. / surge power 1400W for 30 cycles												
	AC VOLTAGE	Factory setting set at 110VAC 100 / 110 / 115 / 120VAC selectable by setting button S.W						Factory setting set at 230VAC 200 / 220 / 230 / 240VAC selectable by setting button S.W						
	FREQUENCY	Note.8	60±0.1Hz 50/60Hz selectable by setting button S.W						50±0.1Hz 50/60Hz selectable by setting button S.W					
	WAVEFORM	Note.6	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℃ ± 5℃ Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power diode						75℃ ± 5℃						
	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.	Note.4	0 ~ +40℃ @ 100% load ; +60℃ @ 50% load											
	WORKING HUMIDITY	20% ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-30 ~ +70℃ / -22 ~ +158°F, 10 ~ 95% RH non-condensing												
	VIBRATION	10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes												
SAFETY & EMC	SAFETY STANDARDS	EAC TP TC 004 approved, Design refer to UL458						IEC62368-1 CB, EAC TP TC 004 approved; Design refer to BS EN/EN62368-1						
	WITHSTAND VOLTAGE	Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC												
	ISOLATION RESISTANCE	Bat I/P - AC O/P, Bat I/P - FG, AC O/P - FG: 100M ohms / 500VDC / 25℃ / 70% RH												
	EMC EMISSION	Compliance to FCC class A, EAC TP TC 020						Compliance to BS EN/EN55032 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark, EAC TP TC 020						
	EMC IMMUNITY	Compliance to EAC TP TC 020						Compliance to BS EN/EN61000-4-2,3,8, EAC TP TC 020						
OTHERS	MTBF	74.4K hrs min. MIL-HDBK-217F (25℃)												
	DIMENSION	295*184*70mm (L*W*H)												
	PACKING	3.8Kg; 2pcs/8.6Kg/1.27CUFT												
NOTE	1.Efficiency is tested by 530W, linear load at 13V, 26V, 52V input voltage. 2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting. 3.Input derating capacity referenced by curve 2. 4.Output derating capacity referenced by curve 1. 5.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V. 6.THd is tested by 700W, linear load at 13,26,52V input voltage. 7.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 8.Type F for 60Hz only. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx													



AC Output Socket (optional)

MODEL NO.	TS-700-112□	TS-700-124□	TS-700-148□	TS-700-212□	TS-700-224□	TS-700-248□
Socket type						
	TYPE-A	TYPE-F		TYPE-B	TYPE-C	TYPE-D
	Standard	Optional		Standard	Optional	Optional
Country	USA	GFCI (60Hz)		EUROPE	AUSTRALIA	U.K
Certificate	FC	FC		E13 CE	E13 CE	E13 CE

Mechanical Specification



Derating Curve

