



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.
- 2 years warranty



SPECIFICATION

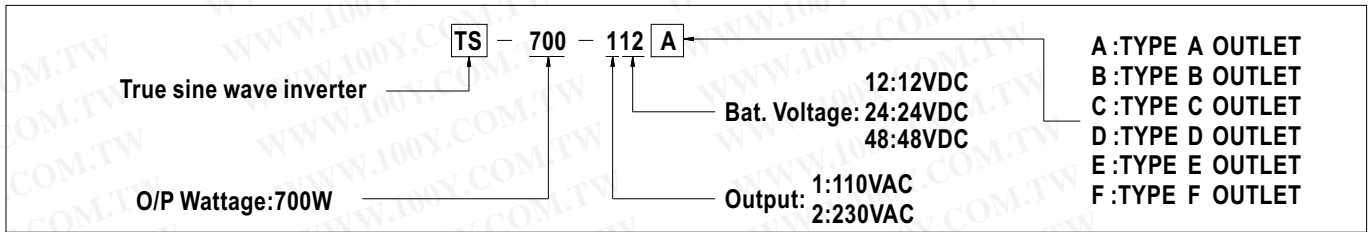
MODEL	TS-700-112□	TS-700-124□	TS-700-148□	TS-700-212□	TS-700-224□	TS-700-248□												
OUTPUT	RATED POWER (Typ.) 700W																	
	MAXIMUM OUTPUT POWER (Typ.) 800W for 180 sec. / 1050W for 10 sec. / surge power 1400W for 30 cycles																	
	AC VOLTAGE			Factory setting set at 110VAC			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%) 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												
INPUT	BAT. VOLTAGE		12V	24V	48V	12V	24V	48V										
	VOLTAGE RANGE (Typ.)		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.) Note.1		86%	88%	89%	89%	90%	91%										
	BATTERY TYPES		Open & sealed Lead Acid															
BATTERY INPUT PROTECTION	FUUSE		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.		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															
	EMI CONDUCTION&RADIATION		Compliance to FCC class A			Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark												
	EMS IMMUNITY		None			Compliance to EN61000-4-2,3,8 ENV50204												
OTHERS	DIMENSION		295*184*70mm (L*W*H)															
	PACKING		3.8Kg; 2pcs/8.6Kg/1.02CUFT															
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°C of ambient temperature.																	

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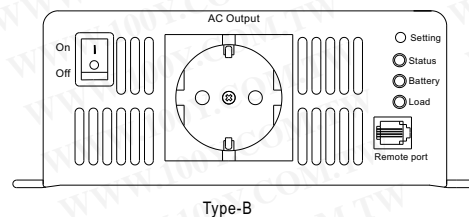
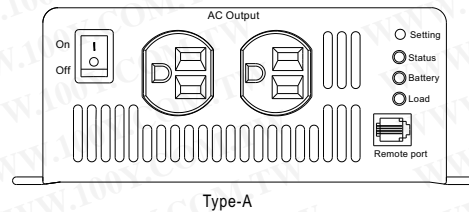
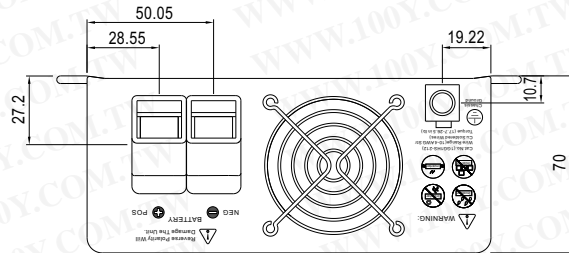
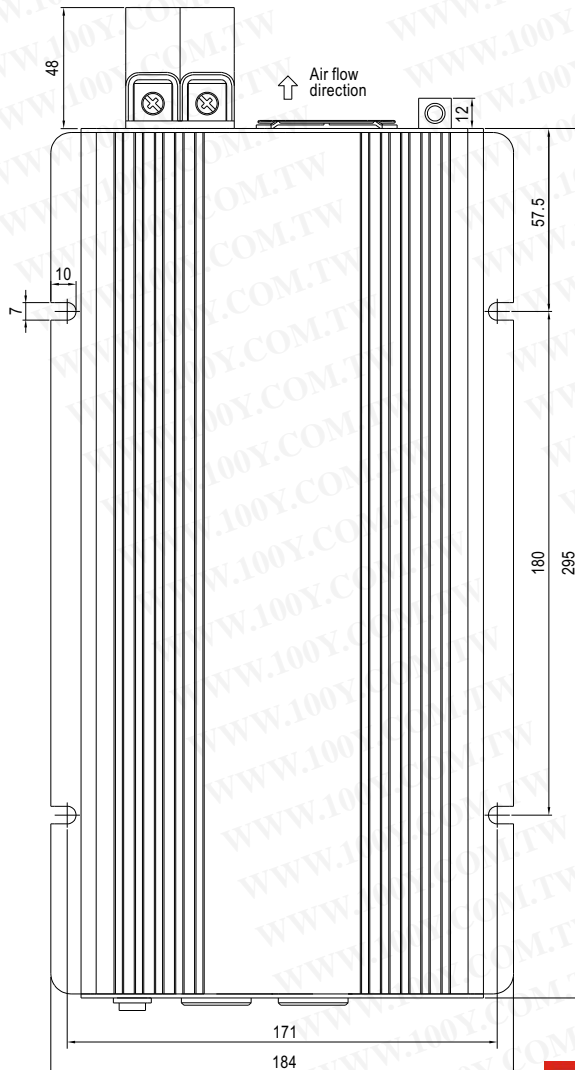


■ AC Output Receptacles (optional)

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



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