

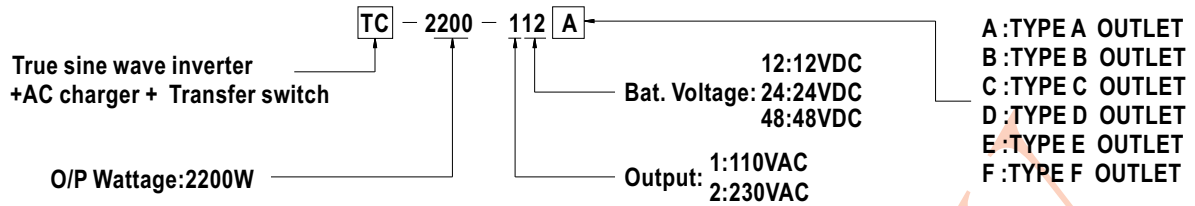
■ Features :

- True sine wave output (THD<3%)
- High surge power up to 4400W
- Heavy duty inverter and battery charger in one unit
- Multiple-stage battery charger with power factor corrected
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input polarity reverse / Overload / AC circuit breaker
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- Built-in remote ON-OFF control
- Built-in transfer switch
- Built-in battery low relay contact
- Optional remote controller
- 3 years warranty

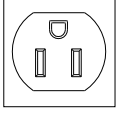
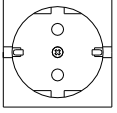
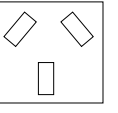
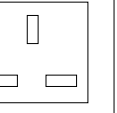
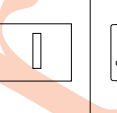
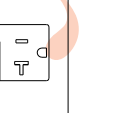


SPECIFICATION

MODEL		TC-2200-112	TC-2200-124	TC-2200-148	TC-2200-212	TC-2200-224	TC-2200-248	
INVERTER SECTION	OUTPUT	RATED POWER (Typ.)	2200W					
		MAXIMUM OUTPUT POWER (Typ.)	2530W for 180 sec. / 3300W for 10 sec. / surge power 4400W 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	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%					
		TRANSFER TIME (Typ.)	10ms inverter → by pass					
		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.3,6	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
		DC CURRENT (Typ.) Note.4	220A	110A	55A	220A	110A	55A
		NO LOAD DISSIPATION (Typ.)	≤ 10W @ standby saving mode					
		OFF MODE CURRENT DRAW (Typ.)	≤ 1mA					
	OUTPUT PROTECTION	EFFICIENCY (Typ.) Note.1	87%	89%	90%	88%	90%	91%
		OVER TEMPERATURE	90℃ ± 5℃	85℃ ± 5℃	85℃ ± 5℃	80℃ ± 5℃	75℃ ± 5℃	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	
	CHARGER SECTION	CHARGER CONTROL	3-stage					
		CHARGE CURRENT (Typ.)	21A	10.5A	5.2A	21A	10.5A	5.2A
CHARGE VOLTAGE Note.6		14.4V	28.8V	57.6V	14.4V	28.8V	57.6V	
AC INPUT POWER FACTOR		PF>0.95 (when charging)						
BATTERY SECTION	EXTERNAL BATTERY TYPES	Open & sealed lead acid battery						
	BAT. LOW RELAY CONTACT	Open : Battery low ; Short : Battery ok						
	FUSE	40A*7	40A*5	40A*3	40A*7	40A*5	40A*3	
	BAT. LOW ALARM Note.6	11.3V	22.5V	45V	11.3V	22.5V	45V	
	BAT. LOW SHUTDOWN Note.6	10.5V	21V	42V	10.5V	21V	42V	
	REVERSE POLARITY	By internal fuse open						
GENERAL SECTION	ENVIRONMENT	WORKING TEMP. Note.2	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					
		VIBRATION	10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes					
	SAFETY & EMC	SAFETY STANDARDS	None			EN60950-1 (LVD)		
		WITHSTAND VOLTAGE	Bat I/P - AC I/P:3.0KVAC 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 part 15 class A			Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark		
		EMC IMMUNITY	None			Compliance to EN61000-4-2,3,4,5,6,8,11		
	OTHERS	MTBF	Khrs min. MIL-HDBK-217F (25℃)					
		CONTROL WIRING	RJ11-RS232 (Option)					
		DIMENSION	* * mm (L*W*H)					
		PACKING	Kg					
NOTE		1.Efficiency is tested by 1650W, linear load at 13V, 26V, 52V input voltage. 2.Output derating capacity referenced by curve 1. 3.Output derating capacity referenced by curve 2. 4.DC current is tested by 2200W, linear load at 12V, 24V, 48V input voltage. 5.All parameters not specified above are measured at rated load, 25℃ of ambient temperature. 6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V						



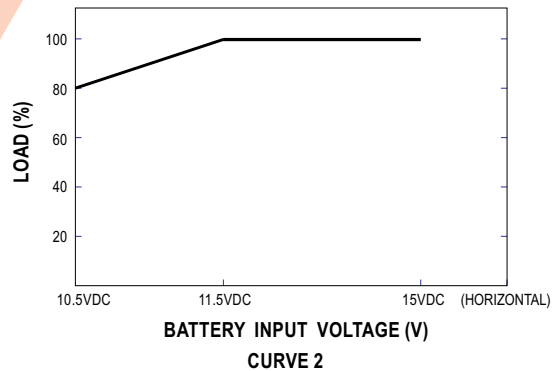
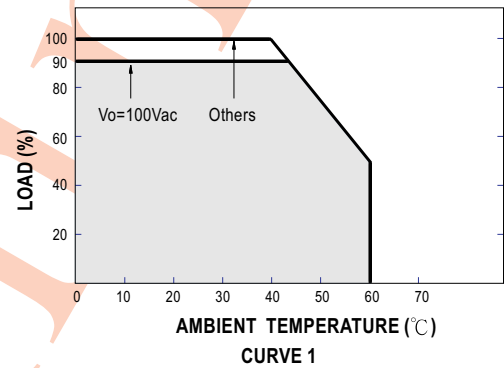
AC Output Receptacle

Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
	Standard	Standard	Optional	Optional	Optional	Optional
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	FC

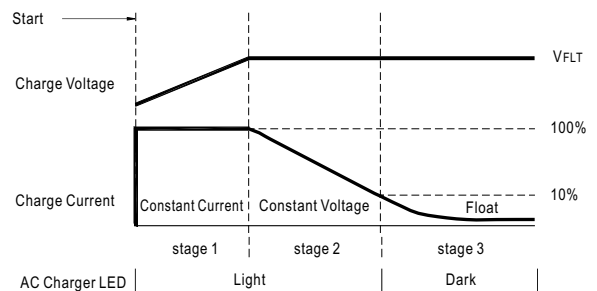
Mechanical Specification

Derating Curve

Unit:mm



Charging Curve



State	112 / 212	124 / 224	148 / 248
VFLT	13.8V	27.6V	54.0V

Bat. Low Relay Connector :
JST B-XH or equivalent

Open	Battery low
Short	Battery OK