

CREEN 1200W Programmable Battery Charger

G1200 series



CE B

Features

- Charger for lithium batteries (Li-ion,LiFePO4 and lithium manganese) and Lead-Acid batteries
- · Built- in 4 stage charging curve(For Lithium batteries) and 4 stage charging curve(For Lead-Acid batteries)
- Universal AC input / Full range(90-264V~)
- · Built- in active PFC function
- · Protection: Short circuit / Over voltage /Over temperature /Battery over voltage / Battery reverse polarity protection
- 1 years warranty

Description

G1200 is a single output 1200W AC/DC desktop type charger with 4 and 3 stage charging curve In addition to the embedded pre-defined charging curves, the default curve is programmable and thus able to accommodate different types of batteries, such as Lead- acid batteries (gel, flooded and AGM) and Lithium batteries(Li-ion,LiFePO4 and Lithium manganese).G1200 can be set different charging voltage value, charging current value and charging end current value through USB, according to customer's own requirements. The LCD screen of G1200 can display the voltage, current, capacity, preset voltage and current.

Mode Encoding

G1200-XXXYYY



Applications

- · Radio system backup solution
- · Electric scooter charger
- Surveillance system
- Electric motorcycle\Electric sweeper

SPECIFICATION(Li-Fe battery charger)

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	MODEL	G1200-288360	G1200-360300	G1200-432277	G1200-576200	G1200-720166
	Charge voltage	28.8V±1%	36.0V±1%	43.2V±1%	57.6V±1%	72.0V±1%
OUTPUT	Charge voltage range	20.0-28.8V	25.0-36.0V	30.0-43.2V	40.0-57.6V	50.0-72.0V
	Charge current	36.0A±10%	30.0A±10%	27.7A±10%	20.0A±10%	16.6A±10%
	•	7.2A±10%	6.0A±10%	5.54A±10%	4.0A±10%	3.32A±10%
	Charge-end current	≤3.6A ±10%	≤3.0A ±10%	≤2.77A ±10%	≤2.0A ±10%	≤1.66A ±10%
	•		1080W		1152W	
	Rated power Recommended battery capacity	1036.8W	108000	1196.64W	115200	1195.2W
	Note.3	60 - 200Ah	40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah
	Leakage current from battery (Typ.)	≤1mA				
CHARGE	LCD display	Display voltage, current, capacity				
COMMUNIC ATION FUNCTION		The battery type (Lead acid, Lithium battery,LiFePO4 battery), charging voltage and charging current car be set by USB interface, Communication with external devices via CAN or RS485.				
	Rated input voltage	100 - 240VAC 50 / 60Hz				
INPUT	Input voltage range Note.4	90 - 264VAC				
	Power factor (Typ.)	PF>0.96 @full load				
	Input current (Typ.)	14A@100VAC				
	Inrush current (Typ.)	Cold start 75A @230VAC				
	Standby input power	< 6W	0001		6000	
	Efficiency (Typ.)	92%	92%	92%	93%	93%
	Short circuit Note.5	Protection type : Shut down output				
ROTECTION	Over voltage	>3.7V*N				
	Reverse polarity	By internal relay				
	Over temperature	Shut down output, recovers automatically after temperature goes down				
ENVIRONMENT	Working temperature	-10 - +40°C (Refer to " Derating Curve")				
	Working humidity	0 - 90% RH				
	Storage temperature, humidity	-40 - +70°C, 0 - 95% RH				
	Cooling	Fan convection				
	Vibration resistance	10 – 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes				
	Max. temperature rise	< 40°C on casing				
	Hi-Pot Insulation	i/p to o/p: 3000V (1 m	nin)			
	Safety standards	IEC62368				-
SAFETY &	EMC Emission	Parameter	Standard		Test Level I Note	
MC(Note.6)		Conducted	EN55032 FCC PA	RT15		Class B
		Radiated	EN55032 FCC PA	RT15		Class B
		Harmonic Current EN61000-3-2				
		Voltage Flicker EN61000-3-3				
	EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11				
OTHERS	MTBF	30000H				
	Dimension	265*134*60mm (L*W*H)				
	Weight	2500g				
NOTE	1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details.					
	2.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature					
	3. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.					
	4. Derating may be needed under low input voltages. Please check the derating curve for more details.					
	 5. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on. 6. The battery charger is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EM I testing of component power supplies." 					



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Function Manual

1. Charging Curve

4 stage charging curve(Li-ion battery charger)



◎ 3 stage charging curve(Lead-Acid battery charger)



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Communication Terminal Pin No. Assignment



Pin No.	Assignment		
1	CANH/RS485-B		
2	5V+		
3	CANL/RS485-A		
4	5V-		