

### G1200 series





#### 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
- · 2 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,f looded 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, and preset voltage and current.

#### Mode Encoding

### G1200-XXXYYY



### Applications

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

# CREEN 1200W Programmable Li-ion Battery Charger

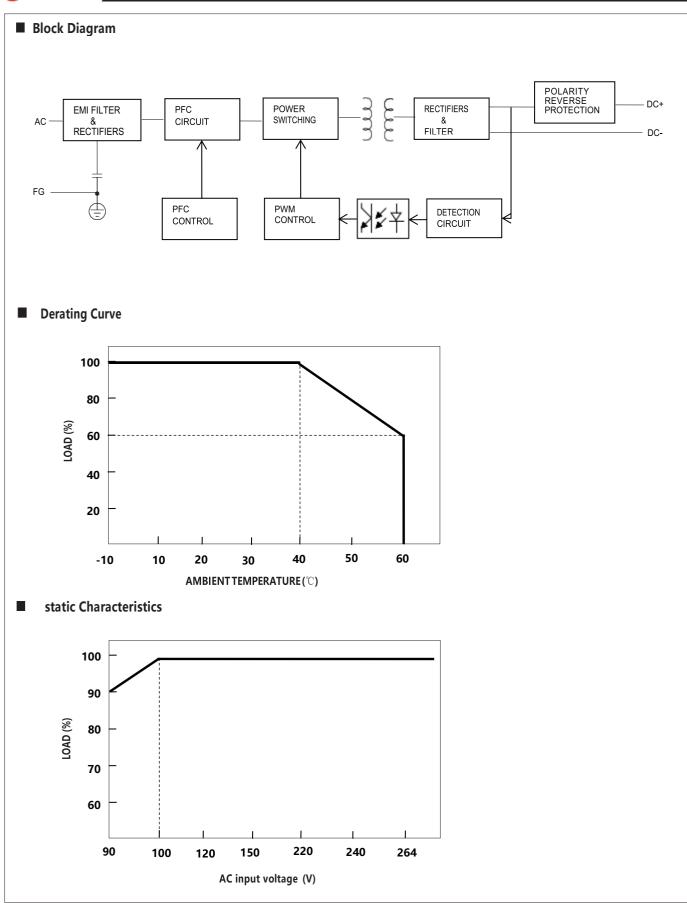
## G1200 series

MODEL		G1200-296360	G1200-444270	G1200-592200	G1200-740160	G1200-888130	
	Charge voltag (High voltage)	29.6V±1%	44.4V±1%	59.2V±1%	74.0V±1%	88.8V±1%	
OUTPUT	Charge voltage range	20.0-29.6V	30.0-44.4V	40.0-59.2V	50.0-74.0V	60.0-88.8V	
	Float charge (Low voltage)	27.6V±1%	41.4V±1%	55.2V±1%	69.0V±1%	82.8V±1%	
	Charge current	36.0A±10%	27.0A±10%	20.0A±10%	16.0A±10%	13.0A±10%	
	Charge-end current	≤7.2A ±20%	≤5.4A ±20%	≪4.0A ±20%	≪3.2A ±20%	≤2.6A ±20%	
	Rated power	1065.6W	1198.8W	1184W	1184W	1154.4W	
	Recommended battery capacity		40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah	
	Note.3 Leakage current from battery (Typ.)	≤1mA					
harge idicator	LCD display	Display voltage,current,capacity					
communic tion unction	USB / CAN / 485	The battery type (Lead acid, Lithium battery,LiFePO4 battery), charging voltage and charging current can be set by USB interface, Communication with external devices via CAN or RS485.					
	Rated input voltage	100 - 240VAC 50 / 6	60Hz				
INPUT	Input voltage range Note.4	90 - 264VAC					
	Power factor (Typ.)	PF>0.96 @full load					
	Input current (Typ.)	13A@100VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	< 4W					
	Efficiency (Typ.)	92%	92%	92%	92%	93%	
		Protection type : Shut o		0270	0270		
		>15.5V*N					
PROTECTION	Over voltage Reverse polarity						
		By internal relay					
	Over temperature	Shut down output, recovers automatically after temperature goes down					
ENVIRONMENT Safety & EMC (Note 6)	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 min)					
	Safety standards	IEC60950.1					
		Parameter	standard			Test Level I Note	
	EMC Emission	Conducted	EN55032 FCC PART			Class B	
		Radiated Harmonic Current	EN55032 FCC PART EN61000-3-2	15		Class B	
		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 11					
OTHERS	MTBF	30000H					
	Dimension	265*134*60mm (L*W*H)					
	Weight	2300g					
NOTE	1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details.						
	<ul> <li>2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature</li> <li>3. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.</li> <li>4. Derating may be needed under low input voltages. Please check the derating curve for more details.</li> </ul>						
	<ul> <li>4. Derating may be needed of</li> <li>5. This protection mechanism</li> <li>6. The battery charger is re-confirm that the who perform these EMC test</li> </ul>	n is specified for th considered as a ble system comp	he case the short in independent plies with the EN	circuit occurs after unit, but the fina MC directives. Fo	the charger is turne al equipment still or guidance on h	ed on. need to	



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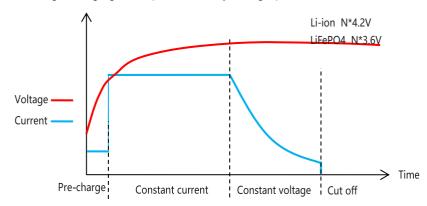


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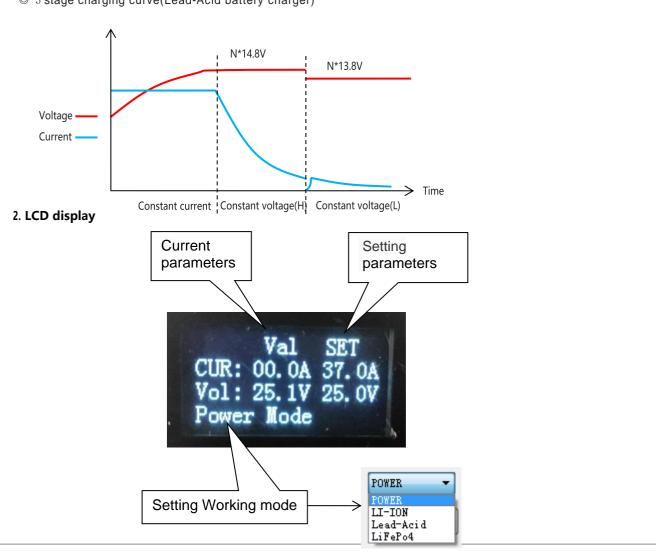
#### Function Manual

#### 1. Charging Curve

4 stage charging curve(Li-ion battery charger)

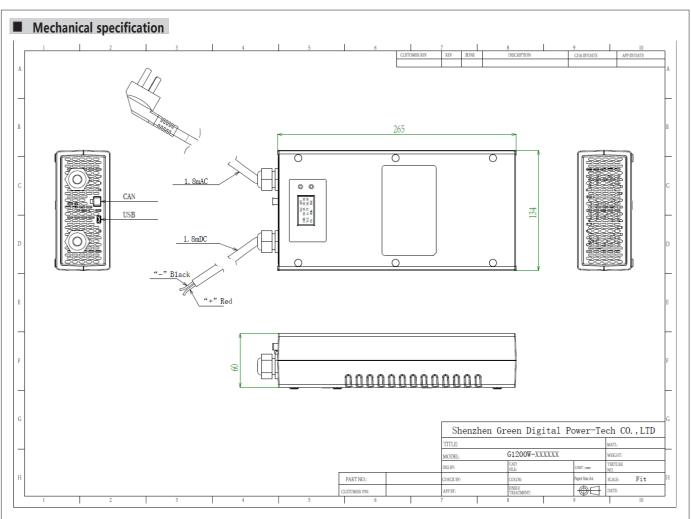


© 3 stage charging curve(Lead-Acid battery charger)

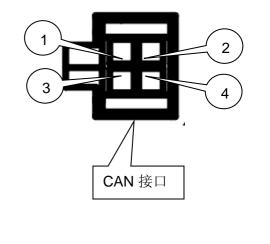


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### Communication Terminal Pin No. Assignment



Pin No.	Assignment		
1	CANH		
2	5V+		
3	CANL		
4	5V-		