





#### ■ 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

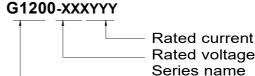
# Applications

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

#### **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.

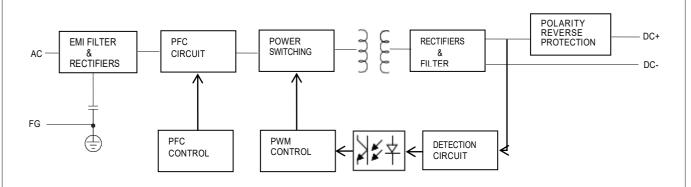
### Mode Encoding



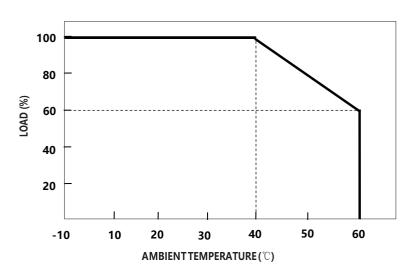
	MODEL	G1200-296360	G1200-444270	G1200-592200	G1200-740160	G1200-888130	
	Charge voltage (High voltage)	29.6V±1%	44.4V±1%	59.2V±1%	74.0V±1%	88.8V±1%	
	Charge voltage range	20.0-29.6V	30.0-44.4V	40.0-59.2V	50.0-74.0V	60.0-88.8V	
	Float charge (Low voltage)	27.6V±1%	41.4V±1%	55.2V±1%	69.0V±1%	82.8V±1%	
ОИТРИТ	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	60 - 200Ah	40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah	
	Note.3		100741		20 007	10 00/	
	Leakage current from battery (Typ.)	≤1mA					
CHARGE NDICATOR OMMUNICA	LCD display	Display voltage(Display error ± 2%), current(Display error ± 6%), capacity  The battery type (Lead acid, Lithium battery,LiFePO4 battery), charging voltage and charging current car					
TION FUNCTION		be set by USB interface, Communication with external devices via CAN or RS485.					
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz					
	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					
	Efficiency (Typ.)	92%	92%	92%	93%	93%	
PROTECTION	Short circuit Note.5	Protection type : Shut	down output	·	·		
	Over voltage	>15.5V*N					
	Reverse polarity	By internal relay					
	Over temperature	Shut down output, re	covers automatically af	ter temperature goes do	wn		
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 min)					
	Safety standards	IEC62368					
SAFETY&		Parameter	Standard			Test Level I Note	
EMC(Note.6)  OTHERS	EMC Emission	Conducted	EN55032 FCC PART			Class B	
		Radiated	EN55032 FCC PART	15		Class B	
		Harmonic Current Voltage Flicker	EN61000-3-2 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					
	MTBF	30000H					
	Dimension	265*134*60mm (L*W*H)					
	Weight	2500g					
NOTE	and Green digital power 2.All parameters NOT specia 3.This is Green suggested charging current limitation. 4.Derating may be needed to 5.This protection mechanism 6.The battery charger is	Modification for charger specification may be required for different battery specification. Please contact battery vendo and Green digital power for details. It parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature this is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. It is protection mechanism is specified for the case the short circuit occurs after the charger is turned on. The battery charger is considered as an independent unit, but the final equipment still need to be e-confirm that the whole system complies with the EMC directives. For guidance on how to be erform these EMC tests, please refer to "EM I testing of component power supplies."					



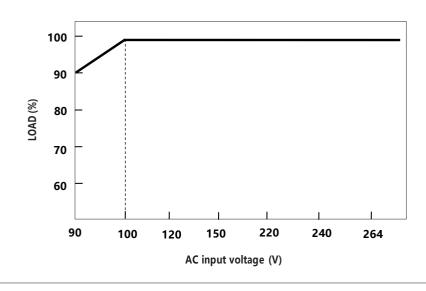
# **■** Block Diagram



## Derating Curve



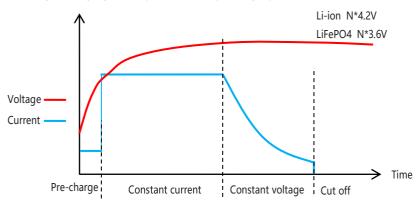
## **■ Static Characteristics**



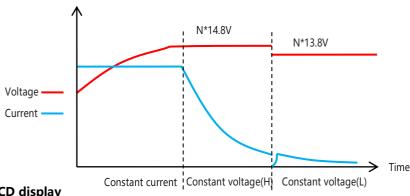


## 1. Charging Curve

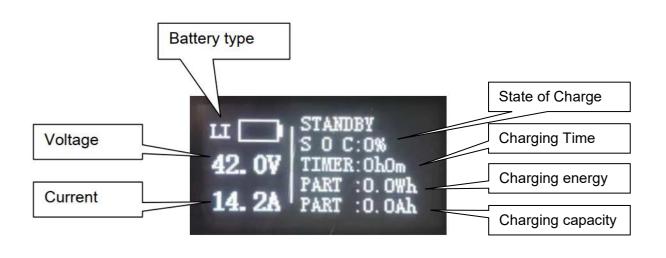
4 stage charging curve(Li-ion battery charger)



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

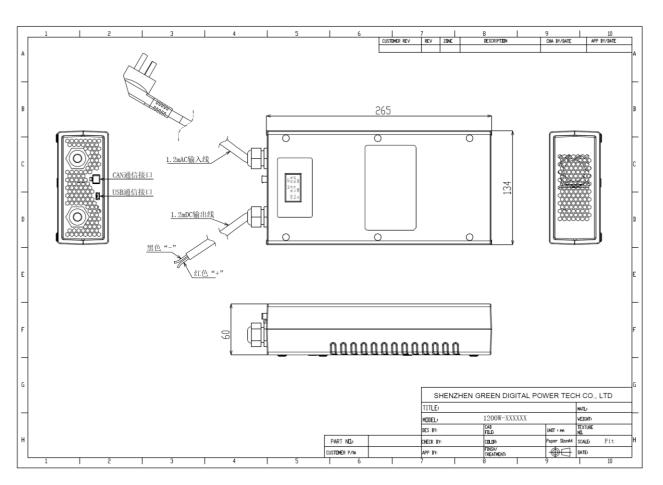


#### 2. LCD display

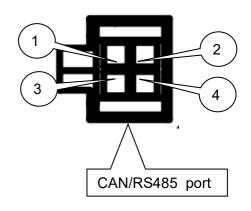




# **■** Mechanical specification



# Communication Terminal Pin No. Assignment



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