





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

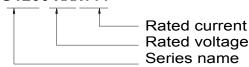
Applications

- · 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 G1200-XXXYYY

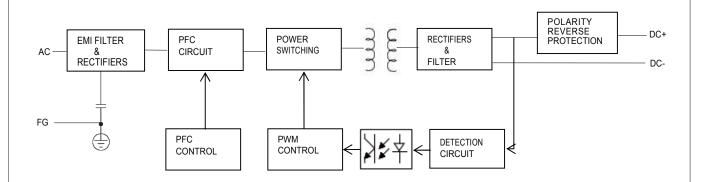


SPECIFICATION(Li-ion battery charger

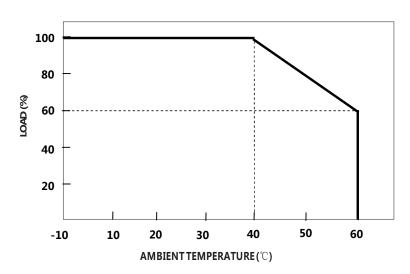
	MODEL	G1200-294360	G1200-420280	G1200-546200	G1200-672175	G1200-840140	
	Charge voltage	29.4V±1%	42.0V±1%	54.6V±1%	67.2V±1%	84.0V±1%	
	Charge voltage range	17.5-29.4V	25.0-42.0V	32.5-54.6V	40-67.2V	50.0-84.0V	
	Charge current	36.0A±10%	28.0A±10%	20.0A±10%	17.5A±10%	14.0A±10%	
ОUТРUТ	Pre-charge current	7.2A±10%	5.6A±10%	4.0A±10%	3.5A±10%	2.8A±10%	
	Charge-end current	≤3.6A ±10%	≤2.8A ±10%	≤2.0A ±10%	≤1.8A ±10%	≤1.4A ±20%	
	Rated power	1058.4W	1176W	1092W	1176W	1176W	
	Recommended battery	80 - 200Ah	60 - 150Ah	40 - 100Ah	40 - 100Ah	30 - 80Ah	
	capacity						
	Note.3						
	Leakage current from battery (Typ.)	≤1mA					
CHARGE NDICATOR	LCD display	Display voltage(Display error ± 2%), current(Display error ± 6%), capacity					
OMMUNICA TION FUNCTION	USB / CAN / 485 Note.1	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 @230	VAC				
	Standby input power	< 6W	la and	la a a c		T	
	Efficiency (Typ.)	92%	92%	93%	93%	93%	
	Short circuit Note.5 Over voltage	Protection type : Shut down output					
ROTECTION	Reverse polarity	>4.35V*N By internal relay					
	Over temperature	, ,	,				
ENVIRONMENT	Working temperature	Shut down output, recovers automatically after temperature goes down -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	10 - 30112, 2G Tollilli. Teyele, dollilli. each along X, 1, 2 axes < 40℃ on casing					
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)					
	Safety standards	IEC62368					
SAFETY & EMC (Note.6)	EMC Emission	Parameter	Standard			Test Level I Note	
		Conducted	EN55032 FCC PA	RT15		Class B	
		Radiated	EN55032 FCC PA			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	 Modification for charger specification may be required for different battery specification. Please contact batter and Green digital power for details. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient ten 3. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maxing charging current limitation. Derating may be needed under low input voltages. Please check the derating curve for more details. This 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 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." 				nbient temperatur bout maximum ils. ned on. Il need to now to		



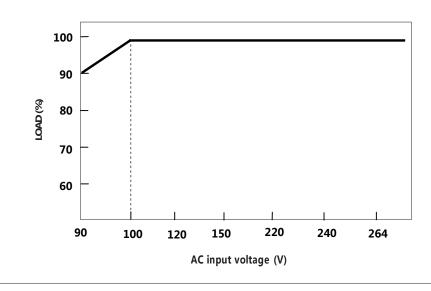
■ Block Diagram



Derating Curve



static Characteristics

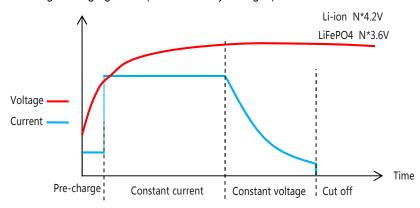




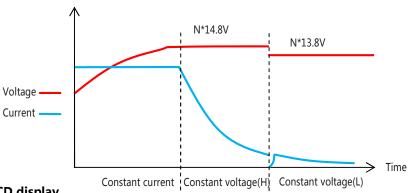
■ Function Manual

1. Charging Curve

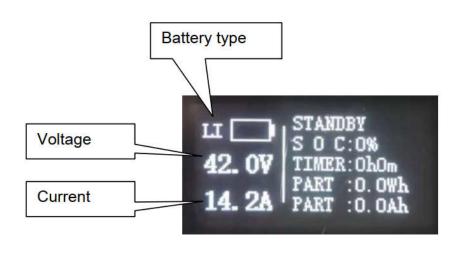
4 stage charging curve(Li-ion battery charger)



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

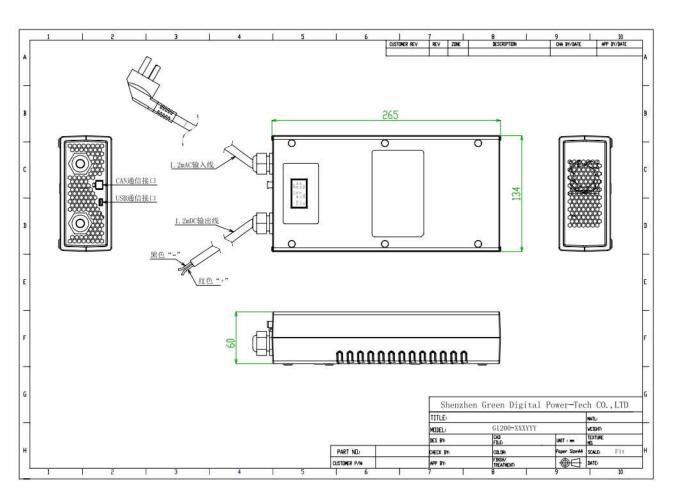


2. LCD display

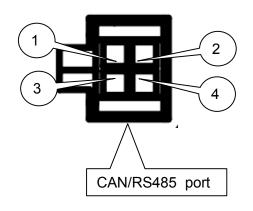




■ Mechanical specification



Communication Terminal Pin No. Assignment



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