







■ 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 3 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

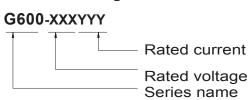
Applications

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

Description

G600 is a single output 600W 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).G600 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 G600 can display the voltage, current capacity, and preset voltage and current.

■ Mode Encoding

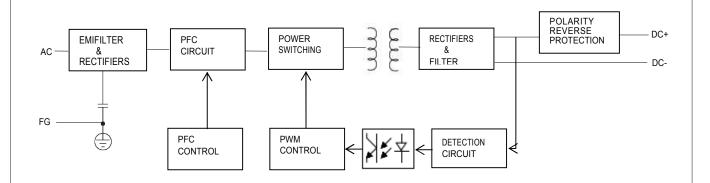


SPECIFICATION(Li-Fe battery charger)

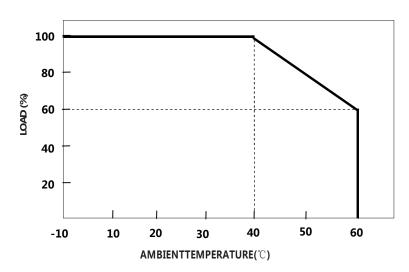
	MODEL	G600-144350	G600-288200	G600-360166	G600-576104	G600-720083	
	Charge voltage	14.4V±1%	28.8V±1%	36.0V±1%	57.6V±1%	72.0V±1%	
	Charge voltage range	10-16.8V	17.5-28.8V	25-36.0V	35-57.6V	42.5-72.0V	
	Charge current	35.0A±10%	20.0A±10%	16.6A±10%	10.4A±10%	8.3A±10%	
	Pre-charge current	7A±10%	4A±10%	3.3A±10%	2A±10%	1.7A±10%	
OUTPUT	Charge-end current	≤3.5A ±20%	≤2A ±20%	≤1.6A ±20%	≤1A ±20%	≤0.85A ±20%	
OUIFUI	Rated power	504W	576W	597.6W	599.04W	597.6W	
	Recommended battery capacit	y 60 - 200Ah	40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah	
	Leakage current from battery (Typ.)	≤1mA					
CHARGE INDICATOR	LCD display	Display voltage, current, capacity					
OMMUNICATIO N FUNCTION	USB / CAN / 485 Note.1	The battery type (Lead acid, Lithium battery,LiFePO4 battery), charging voltage and charging current cabe 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. 98@AC100V,full load					
	Input current (Typ.)	5.8A@115VAC 2.8A@230VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	<2.5W					
	Efficiency (Typ.)	90% 92% 92% 93% 93%					
PROTECTION	Short circuit Note.5	Protection type : Shut down output					
	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℃ (Refer to " Derating Curve")					
	Working humidity	0 - 90% RH					
	Storage temperature, humidity	-40 - +70℃, 0- 95% RH					
	Cooling	Fan convection					
	Vibration resistance	10–50Hz,2G10min.1cycle,60min.eachalongX,Y,Zaxes					
	Max. temperature rise	< 40°C on casing					
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)					
	Safety standards	IEC62368-1					
		Parameter	standard			Test Level I Note	
SAFETY&EMC (Note.6)	EMC Emission	Conducted	EN55032FCCPAR	Г15		Class B	
		Radiated	EN55032FCCPART15		Class B		
	LINO LINISSION		armonic Current EN61000-3-2				
		Voltage Flicker EN61000-3-2					
	EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11					
	MTBF						
OTHERS		30000H 240*417*66mm // *\/*L\					
	Dimension Weight	240*117*66mm (L*W*H)					
	Weight	1500g					
NOTE	 Modification for charger specification may be required for different battery specification. Please contact battery vend and Green digital power for details. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperatures. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum 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 						



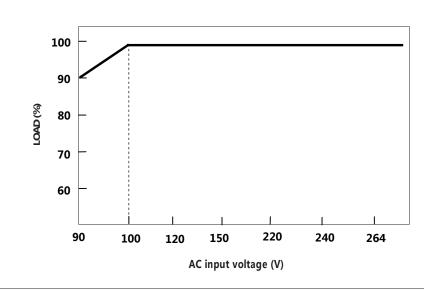
■ Block Diagram



Derating Curve



static Characteristics

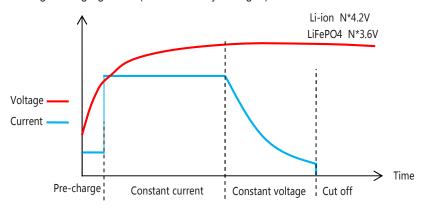




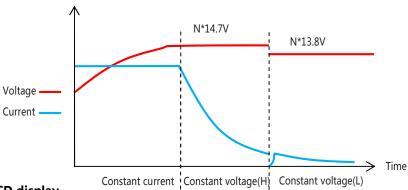
■ Function Manual

1. Charging Curve

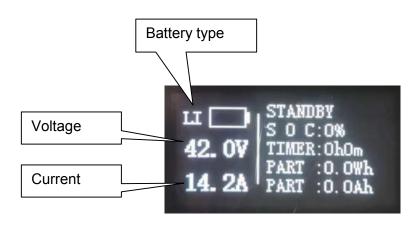
4stage charging curve(Li-ion battery charger)



Stage charging curve(Lead-Acid battery charger)

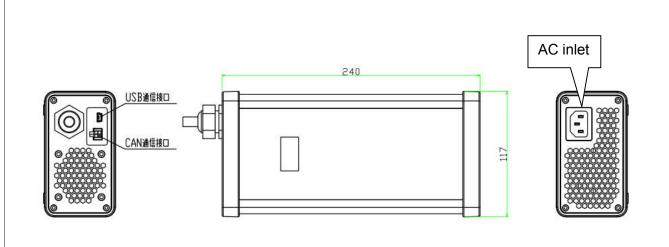


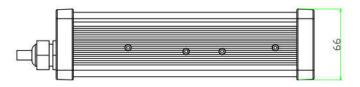
2. LCD display

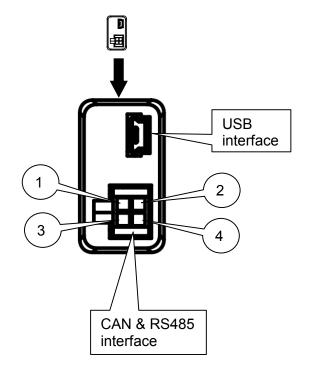




■ Mechanical specification







Communication Terminal Pin No. Assignment

When using CAN communication

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

When using RS485 communication

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