







■ 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

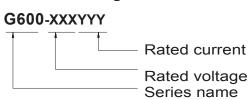
Applications

- · 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.

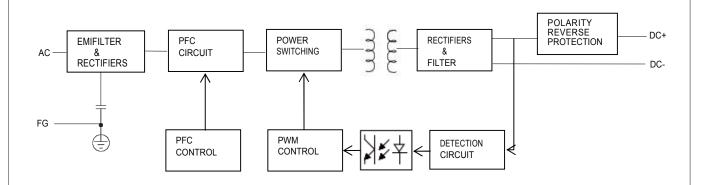
■ Mode Encoding



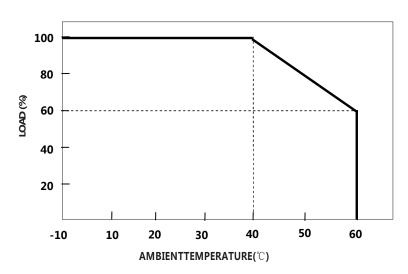
SPECIFICATION(Li-ion battery charger)

	MODEL	G600-168300	G600-294200	G600-420142	G600-588102	G600-714084	
	Charge voltage	16.8V±1%	29.4V±1%	42.0V±1%	58.8V±1%	71.4V±1%	
	Charge voltage range	10-16.8V	17.5-29.4V	25-42.0V	35-58.8V	42.5-71.4V	
	Charge current	30A±10%	20.0A±10%	14.2A±10%	10.2A±10%	8.4A±10%	
	Pre-charge current	6A±10%	4A±10%	2.8A±10%	2A±10%	1.7A±10%	
OUTPUT	Charge-end current	≤3A ±20%	≤2A ±20%	≤1.4A ±20%	≤1A ±20%	≤0.85A ±20%	
DUIPUI	Rated power	504W	588W	596.4W	599.76W	599.76W	
	Recommended battery capacity						
	Note.3	60 - 200Ah	40- 150Ah	30 - 100Ah	20 - 80Ah	15- 60Ah	
	Leakage current from battery (Typ.)	≤1mA					
CHARGE IDICATOR	LCD display	Display voltage, current, capacity					
OMMUNIC ATION FUNCTION	USB / CAN / 485 Note.1	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 / 60Hz					
INPUT	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	000/	000/	020/	020/	
	Efficiency (Typ.) Short circuit Note.5	90%	92%	92%	93%	93%	
		Protection type : Shut down output					
ROTECTION	Over voltage	>4.35V*N					
	Reverse polarity	By internal relay					
	Over temperature	Shut down output, recovers automatically after temperature goes down					
	Working temperature	-10 - +40℃ (Refer to " Derating Curve")					
NI/IDONNENT	Working humidity	0 - 90% RH					
ENVIRONMENT	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℃ on casing					
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)					
	Safety standards EMC Emission	IEC62368-1	-4			Total available	
SAFETY&E MC Note.6)		Parameter	standard	15		Class B	
		Conducted Radiated	EN55032FCCPART				
		Harmonic Current			Class B		
		Voltage Flicker	EN61000-3-2				
	EMC IMMUNITY						
	EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-1					
OTHERS	MTBF	30000H					
	Dimension	240*117*66mm (L*W*H)					
	Weight	1500g					
NOTE	 Modification for charger specification may be required for different battery specification. Please contact battery ven and Green digital power for details. All 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. 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 						

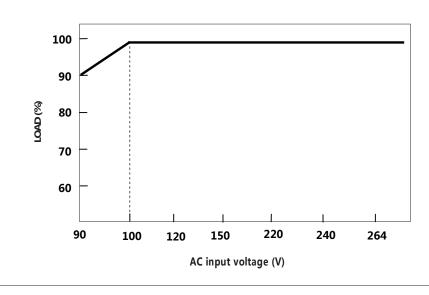
■ Block Diagram



Derating Curve



static Characteristics

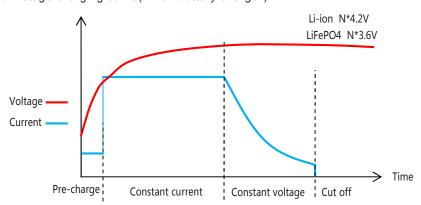




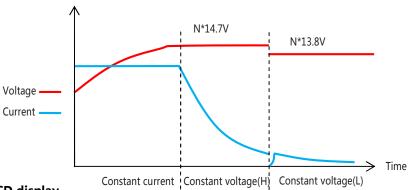
■ Function Manual

1. Charging Curve

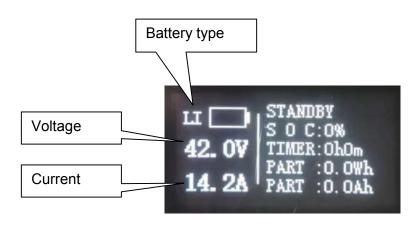
4stage charging curve(Li-ion battery charger)



Stage charging curve(Lead-Acid battery charger)

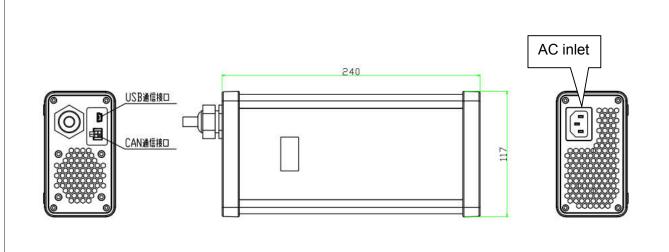


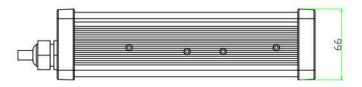
2. LCD display

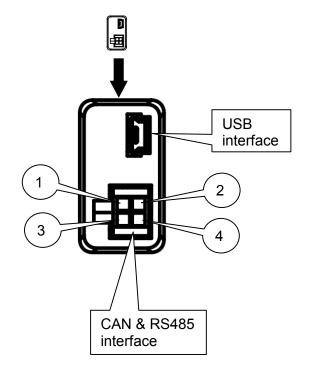




■ Mechanical specification







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-