







Features

- · Charger forlithiumbatteries (Li-ion, LiFePO4 and lithiummanganese) 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

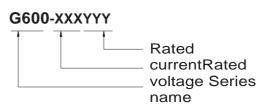
Applications

- Radio system backupsolution
- · Electric scooter charger
- Surveillance system
- Electric motorcycle\Electric sweeper

Description

G600isasingle output 600W AC/DCdesktop 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,floodedand AGM) and Lithiumbatteries (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.

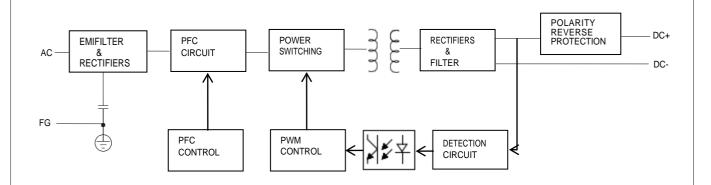
■ ModeEncoding



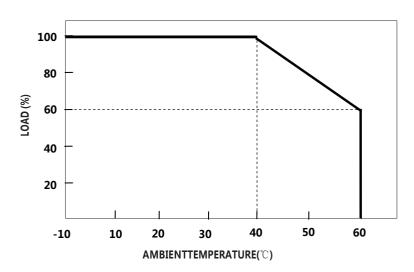
	MODEL	G600-168300	G600-294200	G600-420142	G600-588102	G600-714084	
	Charge voltage	16.8V±1%	29.4V±1%	42.0V±1%	58.8V±1%	71.4V±1%	
ОИТРИТ	Charge voltage range	10-16.8V	17.5-29.4V	25-42.0V	35-58.8V	42.5-71.4V	
	Charge current	30A±10%	20.0A±10%	14.2A±10%	10.2A±10%	8.4A±10%	
	Pre-charge current	6A±10%	4A±10%	2.8A±10%	2A±10%	1.7A±10%	
	Charge-end current	≤3A ±20%	≤2A ±20%	≤1.4A ±20%	≤1A ±20%	≤0.85A ±20%	
	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 INDICATOR	LCD display	Display voltage, current, capacity					
COMMUNIC ATION FUNCTION		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 voltage range Note.4	90 - 264VAC					
	Power factor (Typ.)	PF>0. 98@AC100V, full load					
INPUT	Input current (Typ.)	5.8A@115VAC 2.8A@230VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	< 2.5W	1				
	Efficiency (Typ.)	90%	92%	92%	93%	93%	
	Short circuit Note.5	Protection type : Shut down output					
PROTECTION	Over voltage	>4.35V*N					
TROTECTION	Reverse polarity	By internal relay					
	Over temperature	Shut down output, red	covers automatically at	ter temperature goes do	wn		
	Working temperature	-10 - +40°C (Refer to "Derating Curve")					
ENVIRONMENT	Working humidity	0 - 90% RH					
	Storage temperature, humidity	-40 - +70°C, 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	,				
	EMC Emission	Parameter	standard			Test Level I Note	
SAFETY&E MC Note.6)		Conducted	EN55032FCCPART	15		Class B	
		Radiated	EN55032FCCPART			Class B	
		Harmonic Current					
		Voltage Flicker				••••	
	EMC IMMUNITY						
	MTBF	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11					
OTHERS		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 vendor 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 perform these EMC tests, please refer to "EM I testing of component power supplies." 						



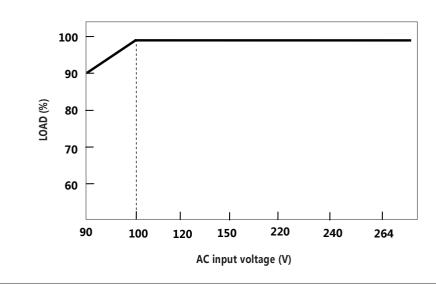
■ Block Diagram



Derating Curve



static Characteristics

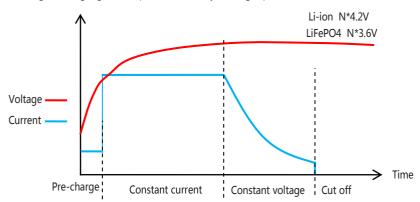




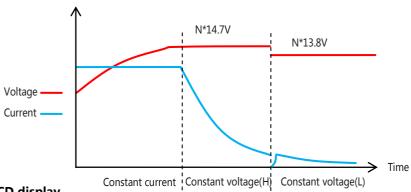
■ Function Manual

1. Charging Curve

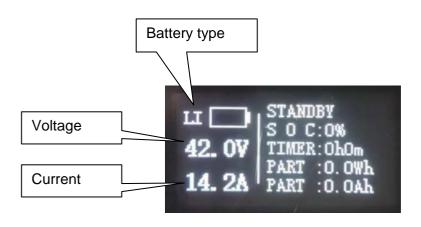
4stage charging curve(Li-ion battery charger)



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

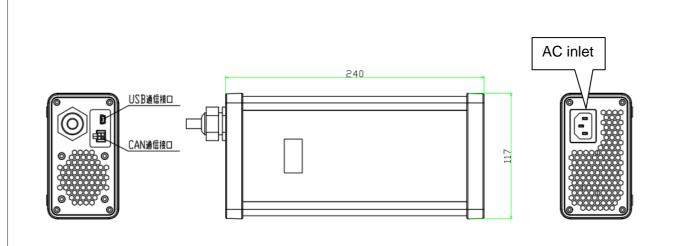


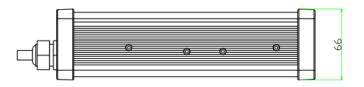
2. LCD display

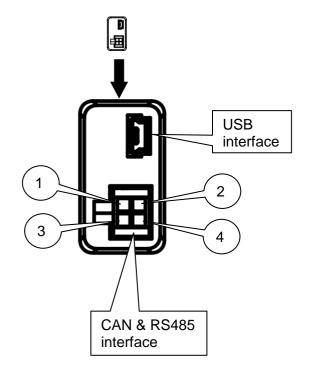




■ Mechanical specification







CommunicationTerminal 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-