

G600 series



CE CB

Features

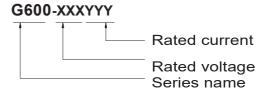
- Charger for lithium batteries (Li-ion,LiFePO4and lithium manganese) and Lead-Acid batteries
- Built- in 4 stage charging curve(For Lithium batteries) and 3 stage charging curve(For Lead-Acid batteries)
- Universal AC input / Full range(90-264V~)
- Built- in active PFC function
- Protection: Short circuit / Over voltage /Over temperature /Battery over voltage / Battery reverse polarity protection
- 1years warranty

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



Applications

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

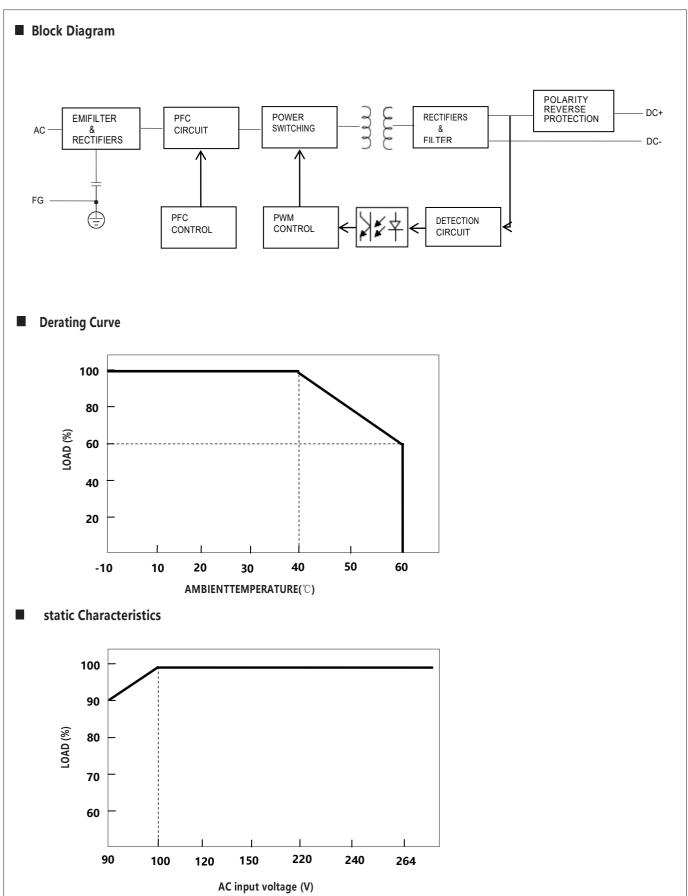
GREEN 600W Programmable Battery Charger

SPECIFICATION(Li-ion battery charger)

	MODEL	G600-168290	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%
OUTPUT	Charge voltage range	10-16.8V	17.5-29.4V	25-42.0V	35-58.8V	42.5-71.4V
	Charge current	29.0A±10%	20.0A±10%	14.2A±10%	10.2A±10%	8.4A±10%
	Pre-charge current	5.8A±10%	4A±10%	2.8A±10%	2A+10%	1.7A±10%
	Charge-end current	≤2.9A ±20%	≤2A ±20%	≤1.4A ±20%	≤1A ±20%	≤0.85A ±20%
	Rated power	≪2.9A ±20 % 487.2W	588W	≤1.4A ±20%	599.76W	599.76W
	Recommended battery capacity	407.200	30000	590.477	599.7000	599.7000
	Note.3	60 - 200Ah	40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah
	Leakage current from battery (Typ.)	≤1mA				
CHARGE INDICATOR	LCD display	Display voltage(Display error ± 2%), current(Display error ± 6%), 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.				
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.)	6.8A@100VAC				
	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	>4.35V*N				
	Reverse polarity	By internal relay				
	Over temperature	Shut down output, recovers automatically after temperature goes down				
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				
SAFETY & EMC (Note.6)	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	
		Conducted	EN55032 FCC PAR	RT15		Class B
		Radiated	EN55032 FCC PART15			Class B
		Harmonic Current				
		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	240*117*66mm (L*W*H)				
	Weight	1500g				
	 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. 					
NOTE	 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."					



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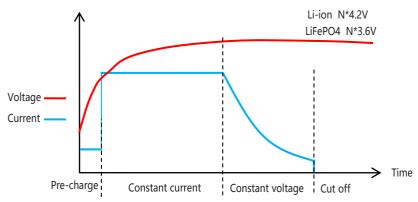




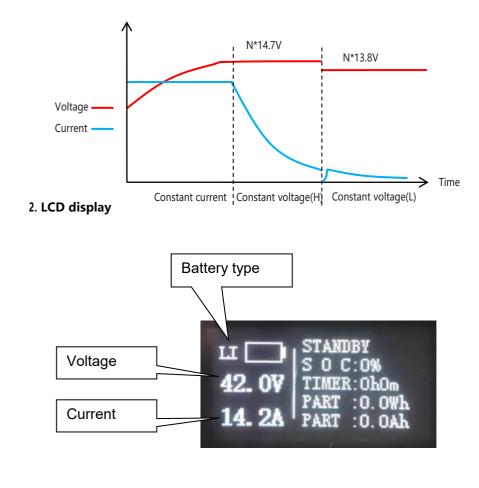
Function Manual

1. Charging Curve





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



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Mechanical specification

