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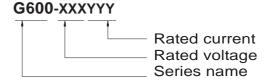
### Features

- 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

### 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



### SPECIFICATION(Li-ion battery charger)

	MODEL	G600-168330	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	33.0A±10%	20.0A±10%	14.2A±10%	10.2A±10%	8.4A±10%		
	Pre-charge current	6.6A±10%	4A±10%	2.8A±10%	2A±10%	1.7A±10%		
	Charge-end current	≤3.3A ±20%	≤2A ±20%	≤1.4A ±20%	≤1A ±20%	≤0.85A ±20%		
	Rated power	554.4W	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	USB / CAN / 485	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						
NIDUT	Power factor (Typ.)	PF>0.98 @full load						
INPUT	Input current (Typ.)	5.8A@115VAC 2.8A@230VAC						
	Inrush current (Typ.)	Cold start 75A @230	JVAC					
	Standby input power Efficiency (Typ.)	< 2.5W 92%	93%	93%	94%	94%		
	Short circuit Note.5			9376	94 /0	94 /0		
		Protection type : Shut down output >4.35V*N						
PROTECTION	Over voltage Reverse polarity							
	Over temperature	By internal relay						
	Working temperature	Shut down output, recovers automatically after temperature goes down -10 - +40°C (Refer to " Derating Curve")						
	Working humidity	0 - 90% RH						
ENVIRONMENT	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	$< 40^{\circ}$ C on casing						
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)						
	Safety standards	IEC60950.1						
CALETY 0	EMC Emission	Parameter	standard			Test Level I Note		
SAFETY & EMC(NOTE		Conducted	EN55032 FCC PAR	T15		Class B		
6)		Radiated EN55032 FCC PART15				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						
	MTBF	30000H						
OTHERS	Dimension	240*117*66mm (L*W*H)						
	Weight	1000g						
NOTE	<ol> <li>Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details.</li> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.</li> <li>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.</li> </ol>							



## G600 series

### 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%		
		504W	576W	597.6W	599.04W	597.6W		
	Recommended battery capacity Note.3		40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah		
	Leakage current from battery (Typ.)	≤1mA						
CHARGE INDICATOR	LCD display	Display voltage,current,capacity						
COMMUNICATION	03B / CAN / 485	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 @full load						
INPUT	Input current (Typ.)	5.8A@115VAC 2.8A@230VAC						
	Inrush current (Typ.)	Cold start 75A @230VAC						
	Standby input power	< 2.5W	000/		0.404	0.101		
	Efficiency (Typ.)	92%	93%	93%	94%	94%		
	Short circuit Note.5	Protection type : Shut down output						
PROTECTION	Over voltage	>3.7V*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")						
	Working humidity	0 - 90% RH						
ENVIRONMENT	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	< 40°C on casing						
	Hi-Pot Insulation	i/p to o/p: 3000V (1 r	nin)					
	Safety standards	IEC60950.1						
		Parameter	standard			Test Level I Note		
SAFETY & EMC (NOTE 6)		Conducted	EN55032 FCC PAF	RT15		Class B		
	EMC Emission	Radiated EN55032 FCC PART15 Class B				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						
	MTBF	30000H						
OTHERS	Dimension	240*117*66mm (L*W*H)						
-'	Weight	1000g						
<ul> <li>NOTE</li> <li>1. Modification for charger specification may be required for different battery specification. Pleat and Green digital power for details.</li> <li>2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25%</li> <li>3. This is Green suggested range. Please consult your battery manufacturer for their suggestic charging current limitation.</li> <li>4. Derating may be needed under low input voltages. Please check the derating curve for mor 5. This protection mechanism is specified for the case the short circuit occurs after the charger 6. The battery charger is considered as an independent unit, but the final equipment</li> </ul>						ambient temperature about maximum ails. rned on.		

# **GREEN** 600W Programmable Li-ion Battery Charger **SPECIFICATION (Lead-Acid battery charger)**

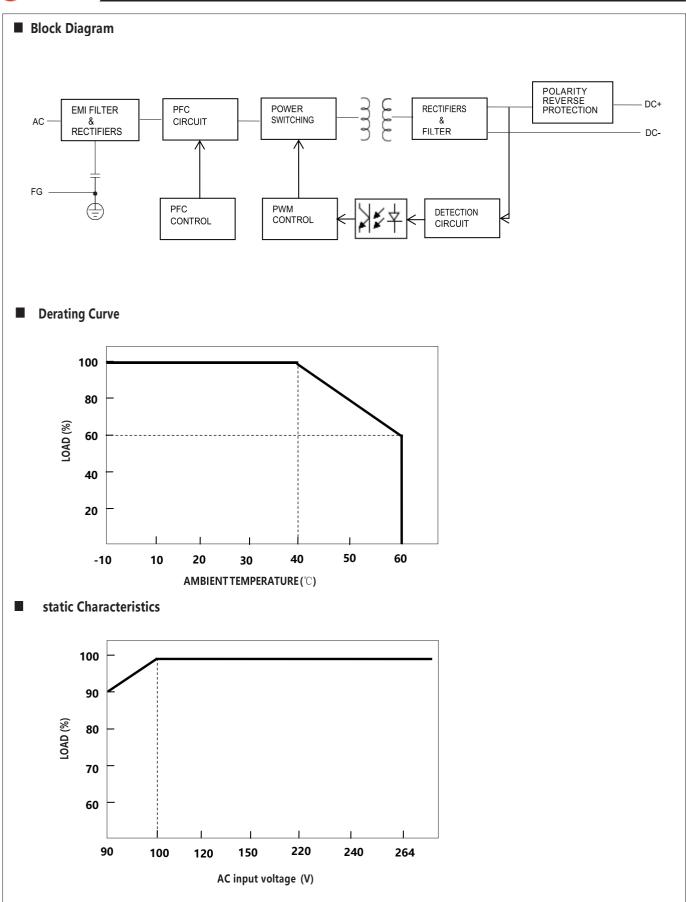
## G600 series

	MODEL	G600-147350	G600-294200	G600-441136	G600-588102	G600-735082			
	Charge voltag (High voltage)	14.7V±1%	29.4V±1%	44.1V±1%	58.8V±1%	73.5V±1%			
	Charge voltage range	10-14.7V	17.5-29.4V	25-44.1V	35-58.8V	42.5-73.5V			
	Float charge (Low voltage)	13.8V±1%	27.6V±1%	41.4V±1%	55.2V±1%	69V±1%			
	Charge current	35.0A±10%	20.0A±10%	13.6A±10%	10.2A±10%	8.2A±10%			
OUTPUT	Charge-end current	≪7A ±20%	≪4A ±20%	≤2.7A ±20%	≪1A ±20%	≤1.6A ±20%			
	Rated power	514.5W	588W	599.76	599.76W	602.7W			
	Recommended battery capacity	60 - 200Ah	40 - 150Ah	30 - 100Ah	20 - 80Ah	15 - 60Ah			
	Note.3								
	Leakage current from battery (Typ.)	)≤1mA							
CHARGE	LCD display	Display voltage,current,capacity							
OMMUNIC ATION UNCTION	USB / CAN / 485	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 voltage range Note.4	90 - 264VAC							
	Power factor (Typ.)	PF>0. 98 @Full load							
INPUT	Input current (Typ.)	5.8A@115VAC 2.8A@230VAC							
	Inrush current (Typ.)	Cold start 75A @230	OVAC						
	Standby input power	< 2.5W							
	Efficiency (Typ.)	92%	93%	93%	94%	94%			
	Short circuit Note.5	Protection type : Shut	down output			1			
	Over voltage	>15.5V*N							
ROTECTION		By internal relay							
		Shut down output, recovers automatically after temperature goes down							
	Working temperature	-10 - +40°C (Refer to " Derating Curve")							
	Working humidity	0 - 90% RH							
ENVIRONMENT	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	$<40^{\circ}$ concasing							
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)							
	Safety standards	IEC60950.1							
		Parameter	standard			Test Level I Not			
SAFETY &	EMC Emission	Conducted	EN55032 FCCPAR	T15		Class B			
MC(NOTE 6)		Radiated EN55032 FCCPART15			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							
	MTBF	30000H							
OTHERS	Dimension	240*117*66mm (L*W*H)							
	Weight	1000g							
NOTE	<ul> <li>and Green digital power</li> <li>2. All parameters NOT special</li> <li>3. This is Green suggested charging current limitation.</li> <li>4. Derating may be needed to 5. This protection mechanism</li> <li>6. The battery charger is</li> </ul>	specially mentioned are measured at 230VAC input, rated load and $25^\circ$ C of ambient temperature ested range. Please consult your battery manufacturer for their suggestions about maximum							



GREEN 600W Programmable Li-ion Battery Charger

# G600 series

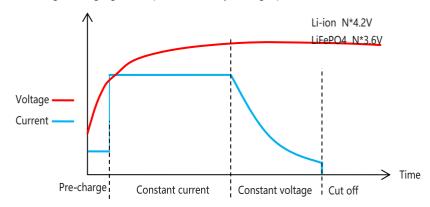


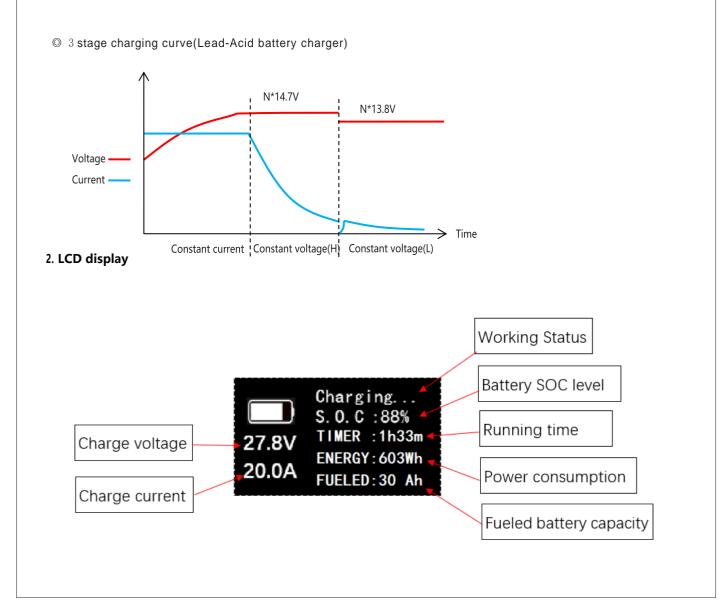


### Function Manual

### 1. Charging Curve

◎ 4 stage charging curve(Li-ion battery charger)





# G600 series

