

## GaN085 series



# CE

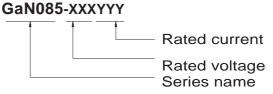
#### Features

Charger forlithium batteries (Li-ion,LiFePO4 and lithium manganese), Lead-Acid batteries and NIMH
Built- in 4 stage charging curve(For Lithium batteries) and 3 stage charging curve(For Lead-Acid batteries )
Universal AC input, wide range cover 90-264V
Small size
High efficiency, >90% at AC 90V input
Protection: Short circuit, OCP, OVP & reverse polarity
1years warranty

#### Description

GaN085 is a single output 85W AC/DC desktop type charger with 4 and 3 stage charging curve, The different curves are suitable for different batteries, such as Lead- acid batteries (gel,floodedand AGM) and Lithium batteries(Li-ion,LiFePO4 andLithium manganese).

#### Mode Encoding



#### Applications

Power tools & Drones
Electric scooter
Surveillance system
Consumer electronic devices

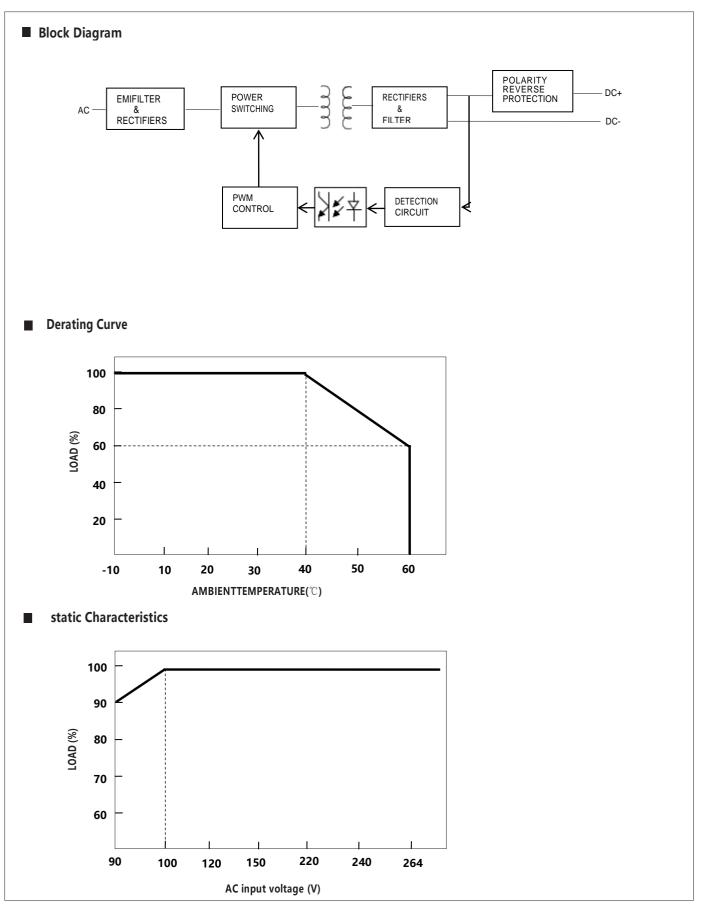


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	MODEL	GaN085-148050		GaN085-296028	GaN085-59	2015	
	Charge voltage (High voltage)	14.8V±1%		29.6V±1%	59.2V±1%		
OUTPUT	Charge voltage range	10-14.8V			40-59.2V		
	Float charge (Low voltage)	13.8V±1%		27.6V±1%	55.2V±1%		
		5.0A±10%		2.8A±10%	1.5A±10%		
	Charge-end current	≤1.0A ±20%		≪0.56A ±20%		≤0.3A ±20%	
	Rated power	74W		82.88W		88.8W	
	Recommended battery capacity			12 - 28Ah		8 - 15Ah	
	Note.3						
	Leakage current from battery (Typ.)	) ≤2mA					
CHARGE INDICATOR	LED indication	LED1 on:25% Capacity; LED1 - LED2 on: 50% Capacity; LED1 – LED3 on: 75% Capacity; LED1 – LED4 on: 100% Capacity; LED1 – LED4 flashing : error					
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz					
	Input voltage range Note.4	90 - 264VAC					
	Power factor (Typ.)	PF>0. 55@AC100V, full load					
	Input current (Typ.)	1.3@115VAC 0.8A@230VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	<1W					
	Efficiency (Typ.)	93%		93%	92.5%		
	Short circuit	Yes					
PROTECTION		Yes					
	Over voltage Reverse polarity	Yes					
	Over temperature	•					
	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	Natural convection					
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes					
SAFETY&E MC(Note.6)	Max. temperature rise	$<40^{\circ}$ C on casing					
	Hi-Pot Insulation	<pre>i/p to o/p: 3000V (1 min)</pre>					
	Safety standards	IEC62368-1					
		Parameter	Standard			Test Level I Note	
	EMC Emission	Conducted	EN55032 FC			Class B	
		Radiated	EN55032 FC0			Class B	
		Harmonic Current	EN61000-3-2				
			EN61000-3-2				
		Voltage Flicker					
		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	114*68.4*29mm(L*W*H)					
	Weight	250g					
NOTE	1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details.						
	2.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.						
	3. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.						
	4. Derating may be needed under low input voltages. Please check the derating curve for more details.						
	<ul> <li>5. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.</li> <li>6. 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> <li>7. AC Inlet is ICE320-C8, DC cord is 1.5m 2*18AWG wires, DC terminal is defined when order.</li> </ul>						

### CREEN 85W Battery Charger

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