

## 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

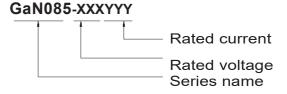
#### Applications

Power tools & Drones
Electric scooter
Surveillance system
Consumer electronic devices

#### 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



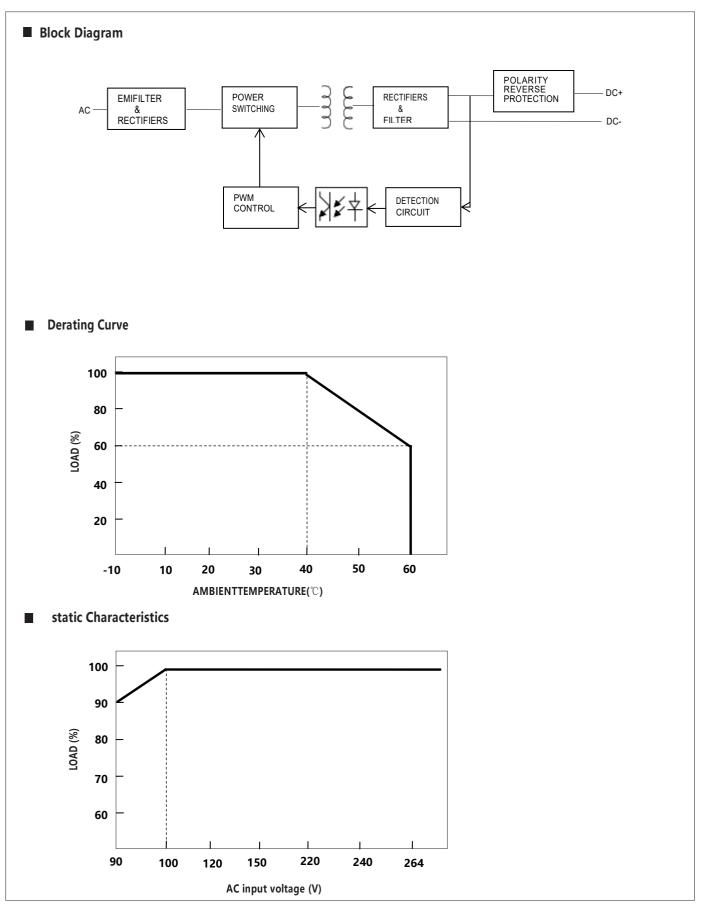
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	MODEL	GaN085-148050	GaN085-296028	GaN085-444019	GaN08	5-592015	
OUTPUT	Charge voltage (High voltage)	14.8V±1%	29.6V±1%	44.4V±1%	59.2V±	1%	
	Charge voltage range	10-14.8V	20-29.6V	30-44.4V	40-59.2	2V	
	Float charge (Low voltage)	13.8V±1%	27.6V±1%	41.4V±1%	55.2V±	1%	
	Charge current	5.0A±10%	2.8A±10%	1.9A±10%	1.5A±1	0%	
	Charge-end current	≤1.0A ±20%	≪0.56A ±20%	≪0.38A ±20%	≪0.3A ±20%		
	Rated power	74W	82.88W	84.36W	88.8W		
	Recommended battery capacity	20 - 55Ah	12 - 28Ah	10 - 20Ah	8 - 15A	h	
	Note.3 Leakage current from battery (Typ.)	≤2mA					
	Lounago ourront nom sattory (1991)	LED1 on:25% Capacity; LED1 - LED2 on: 50% Capacity;					
CHARGE NDICATOR	LED indication	LED1 – LED3 on: 75% Capacity; LED1 – LED4 on: 100% Capacity; LED1 – LED4 flashing:error					
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz					
	Input voltagerange Note.4	90 - 264VAC					
	Power factor (Typ.)	PF>0. 55@AC100V, full load					
	Input current (Typ.)	1.5@100VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	<1W					
	Efficiency (Typ.)	93%	93%	92%	92.5%		
PROTECTION	Short circuit	Yes	Yes				
	Over voltage	Yes					
	Reverse polarity	Yes					
	Over temperature	-					
ENVIRONMENT	Working temperature	-10 - +40°C (Refer to " Derating Curve")					
	Working humidity	0 - 90% RH					
	Storagetemperature, 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℃ 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 PART15		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	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.						
	5. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.						
	<ul><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>						
	-		8AWG wires, DC termi	nal is defined when orc	ler		

### CREEN 85W Battery Charger

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