

CE

Features

- •Charger forlithium batteries (Li-ion,LiFePO4 and lithium manganese) and Lead-Acid batteries
- •Built- in 2-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
- 1 years warranty

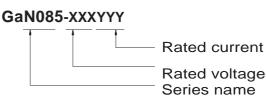
Applications

- •Power tools & Drones
- Electric scooter
- Surveillance system
- •Consumer electronic devices

■ Description

GaN085 is a single output 85W AC/DC desktop type charger with 2 and 3 stage charging curve, The different curves are suitable for different batteries, such as Lead- acid batteries (gel,floodedand AGM) and Lithium batteries (Liion,LiFePO4 and Lithium manganese).

■ Mode Encoding

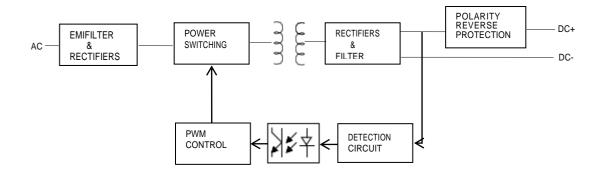




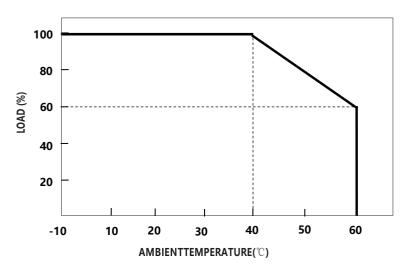


MODEL		GaN085-126060	GaN085-168050	GaN085-210040	GaN085-294028	GaN085-420020	GaN085-588015
	Charge voltage	12.6V±1%	16.8V±1%	21.0V±1%	29.4V±1%	42.0V±1%	58.8V±1%
ОИТРИТ	Charge voltage range	7.5-12.6V	10-16.8V	12.5-21.0V	17.5-29.4V	25-42.0V	35-58.8V
	Charge current	6.0A±10%	5.0A±10%	4.0A±10%	2.8A±10%	2.0A±10%	1.5A±10%
	Pre-charge current	-	-	_	-	-	_
	Charge-end current	≤0.6A ±20%	≤0.5A ±20%	<0.4A ±200/	≤0.28A ±20%	≤0.2A ±20%	≤0.15A ±20%
				≤0.4A ±20%			
	Rated power		84W	84W	82.32W	84W	88.2W
	Recommended battery	6 - 50Ah	5 - 40Ah	4- 30Ah	3 -20Ah	2 - 15Ah	1.5 - 12Ah
	Leakage current from battery (Typ.)	≤2mA					
CHARGE INDICATOR	LED indication	Red: Charging. Green: Full or Idle					
	Rated input voltage	100 - 240VAC 50 / 60Hz					
INPUT	Input voltage range Note.4	90 - 264VAC					
	Power factor (Typ.)	PF>0. 55@AC100V, full load					
	Input current (Typ.)	1.3A@115VAC					
	Inrush current (Typ.)	Cold start <75A @230VAC					
	Standby input power	<1W					
	Efficiency (Typ.)		93.5%	93.5%	93%	92%	92%
	Short circuit	Yes			/-	1/-	I== / °
PROTECTION		Yes					
	Over voltage						
	Reverse polarity	Yes					
ENVIRONMENT	Over temperature						
	Working temperature	-10 - +40°C (Refer to " Derating Curve")					
	Working humidity	0 - 90% RH					
	Storage temperature, humidity	· · · · · · · · · · · · · · · · · · ·					
	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					
		Parameter Standard Test Level I Note					
	EMC Emission	Conducted	EN55032FCCP/	EN55032FCCPART15 Class B			
		Radiated	EN55032FCCP/			Class B	
		Harmonic Current		EN61000-3-2			
		Voltage Flicker	EN61000-3-2				
	CAAO IRABAI INIITY	· ·					
	EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11					
OTUESS	MTBF	30000H					
OTHERS	Dimension	114*68.4*29mm(L*W*H)					
	Weight	250g					
	Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details. Only provided the provided and the provided the						
	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.						
NOTE	 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. 7. AC Inlet is ICE320-C8, DC cord is 1.5m 2*18AWG wires, DC terminal is defined when order. 						
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■ Block Diagram



Derating Curve



static Characteristics

