

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

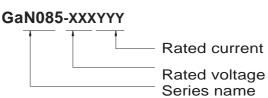
Applications

- •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



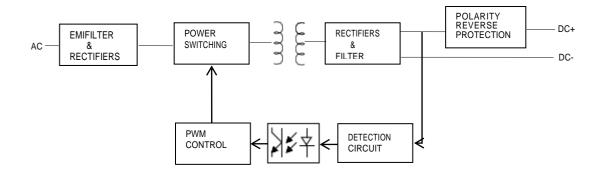




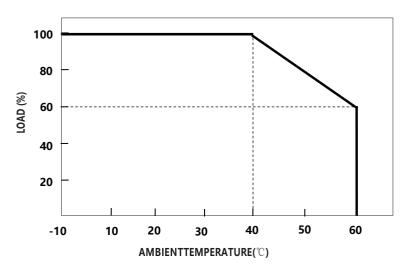
SPECIFICATION(Li-Fe battery charger)

	MODEL MODEL	GaN085-144050	GaN085-28802	8 GaN085-5	576015	
	Charge voltage	14.4V±1%	28.8V±1%	57.6V±1%		
ОИТРИТ	Charge voltage range	10-14.4V	20-28.8V	40-57.6V		
	Charge current	5.0A±10%	2.8A±10%	1.5A±10%		
	Pre-charge current	2.07.21070				
	Charge-end current	<0.5A ±200/	CO FA COOK CO FA COOK		200/	
		≤0.5A ±20%	≤0.28A ±20%		≤0.15A ±20%	
	· .	72W 80.64W 86.4W				
	Recommended battery capacity Note.3	5 - 40Ah	3 - 20Ah	1.5 -12Ah	1.5 -12Ah	
	Leakage current from battery (Typ.)	≤2mA 				
CHARGE INDICATOR	LED indication	Red: Charging. Green: Full or Idle				
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.)	1.5A@100VAC				
	Inrush current (Typ.)	Cold start 75A @230VAC				
	Standby input power	<1W				
	Efficiency (Typ.)	93%	93%	93% 92.5%		
PROTECTION	Short circuit	Yes				
	Over voltage	Yes				
	Reverse polarity	Yes				
	Over temperature					
ENVIRONMENT	Working temperature	-10 - +40℃ (Refer to " Derating Curve")				
	Working humidity	0 - 90% RH				
	Storage temperature, humidity	-40 - +70℃, 0 - 95% RH				
	Cooling	Natural convection				
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes				
SAFETY&EMC (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	EN55032 FCC PART15		Class B	
		Radiated	EN55032 FCC PART15			
	Lino Liniosion	Harmonic Current	EN61000-3-2		Class B	
		Voltage Flicker	EN61000-3-3			
	EMC IMMUNITY		1000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11			
	MTBF	30000H				
OTHERS	Dimension	114*68.4*29mm(L*W*H)				
		,				
	Weight	250g				
NOTE	 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. 					
	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.					
	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.					
	7.70 mict is 102020-00, DO COTA is 1.5m 2 TOAVYO WIEG, DO TERMINALIS ACIDICA WHEN OLDER.					

■ Block Diagram



Derating Curve



static Characteristics

