

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
- 1 years warranty

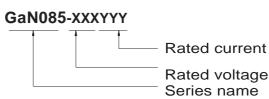
Applications

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

Description

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

■ Mode Encoding



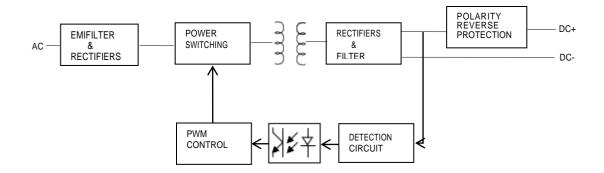




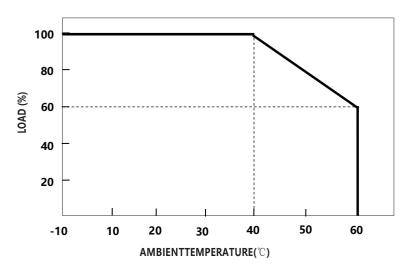
SPECIFICATION(Li-Fe battery charger)

	MODEL	GaN085-144050		GaN085-288028	GaN085-57	6015	
	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%	1.5A±10%	
	Pre-charge current	1.0A±10%		0.56A±10%	0.3A±10%	0.3A±10%	
	Charge-end current	≤0.5A ±20%		≤0.28A ±20%	≤0.15A ±2	≤0.15A ±20%	
	Rated power	72W		80.64W	86.4W	86.4W	
	Recommended battery capacity	/5 - 40Ah		3 - 20Ah	1.5 -12Ah	1.5 -12Ah	
	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.)	1.5A@100VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	<1W			00.50/		
	Efficiency (Typ.) Short circuit	93% 93. 92.5% Yes					
PROTECTION		Yes					
	Over voltage						
	Reverse polarity Over temperature	Yes					
	Working temperature	40 × 40°C (Defeate Develop Compally					
ENVIRONMENT	Working temperature Working humidity	-10 - +40 ℃ (Refer to " Derating Curve") 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°C on casing					
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)					
	Safety standards	IEC62368-1					
	Carety Standards	Parameter	Standard			Test Level I Note	
	EMC Emission	Conducted	EN55032 F	CC PART15		Class B	
		Radiated	EN55032 F			Class B	
		Harmonic Current	EN61000-3-2	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					
OTHERS	MTBF	30000H					
	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.						
	2.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.						
	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. AO IIIIEU IS IOE320-00, D	O 0010 15 1.3111 2 16		s, DO terminal is defined	wilen older.		

■ Block Diagram



Derating Curve



static Characteristics

