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■ Features

- •Charger for lithium batteries (Li-ion,LiFePO4and 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, only 75*43*28mm
- •High efficiency, >91% at AC 90V input
- •Protection: Short circuit, OCP, OVP & reverse polarity
- 1 years warranty

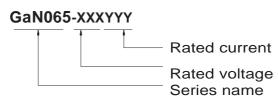
Applications

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

Description

GaN065 is a single output 65W 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



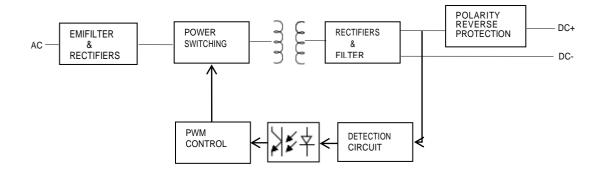




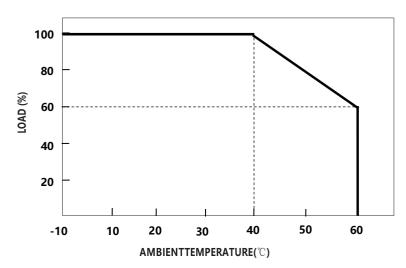
SPECIFICATION(Li-Fe battery charger)

MODEL		GaN065-144033		GaN065-180028	GaN065-28	38017	
	Charge voltage	14.4V±1%		18.0V±1%	28.8V±1%		
OUTPUT	Charge voltage range	10-14.4V		12.5-18V	20-28.8V		
	Charge current	3.3A±10%		2.8A±10%	1.7A±10%	1.7A±10%	
	Pre-charge current	0.66A±10%		0.56A±10%	0.34A±10%)	
	Charge-end current	≤0.33A ±20%		≤0.28A ±20%	≤0.17A ±2	≤0.17A ±20%	
	Rated power	47.52W					
	Recommended battery capacity						
	Note.3	0 00/11					
	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.)	1.1A@115VAC					
	Inrush current (Typ.)	Cold start 75A @230VAC					
	Standby input power	<0.5W 92.5%					
PROTECTION	Efficiency (Typ.) Short circuit	92.5% Yes					
		Yes					
	Over voltage						
	Reverse polarity Over temperature	Yes					
	Working temperature	40 . 40% (Defecte Develop Currell)					
ENVIRONMENT	Working temperature Working humidity	-10 - +40°C (Refer to " Derating Curve")					
		0 - 90% RH					
	Storage temperature, humidity Cooling	-40 - +70 ℃, 0 - 95% RH Natural convection					
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes					
		10 - 50Hz, 2G Turnin, Teyere, 60Him, each along X, Y, Z axes < 40℃ on casing					
SAFETY&EMC (Note.6)	Max. temperature rise Hi-Pot Insulation	i/p to o/p: 3000V (1 min)					
	Safety standards	IEC62368-1					
	Salety Standards	Parameter	Standard			Test Level I Note	
	EMC Emission	Conducted	EN55032 F0	C PΔRT15		Class B	
		Radiated	EN55032 F0			Class B	
		Harmonic Current	EN61000-3-2				
		Voltage Flicker	EN61000-3-2				
	EMC IMMUNITY	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11					
	MTBF	30000H					
OTHERS	Dimension	75*43*28.5mm (L*W*H)					
	Weight	120g					
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. This is Green suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. Derating may be needed under low input voltages. Please check the derating curve for more details. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on. 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. AC Inlet is ICE320-C8, DC cord is 1.5m 2*18AWG wires, DC terminal is defined when order. 						

■ Block Diagram



■ Derating Curve



static Characteristics

