

CE

■ 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

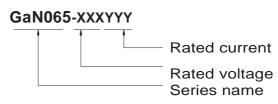
Applications

- •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

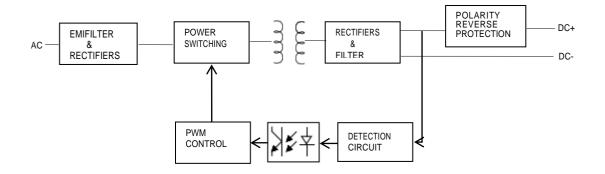




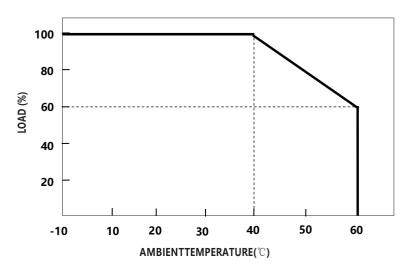
SPECIFICATION(Li-ion battery charger)

Charge voltage	8.4V±1%	12.6V±1%	10.01/ 10/		+
	O. 1 V = 1 / 0	12.0V±1%	16.8V±1%	21.0V±1%	29.4V±1%
Charge voltage range	5-8.4V	7.5-12.6V	10-16.8V	12.5-21.0V	17.5-29.4V
Charge current	5A±10%	4A±10%	3.0A±10%	2.4A±10%	1.7A±10%
Pre-charge current	1A±10%	0.8A±10%	0.6A±10%	0.48A±10%	0.34A±10%
Charge-end current	≤0.5A ±20%	≤0.4A ±20%	≤0.3A ±20%	≤0.24A ±20%	≤0.17A ±20%
	42W		50.4W	50.4W	
Rated power	5 - 40Ah	50.4W 4 - 30Ah	3.5 - 30Ah	3 - 30Ah	49.98W 2 -20Ah
Recommended battery capacity Note.3	5 - 40AH	4 - 30AII	3.5 - 30AH	3 - 30AH	2 -20AII
Leakage current from battery (Typ.)	≤2mA				
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				
Rated input voltage	100 - 240VAC 50 / 60Hz				
Input voltage range Note.4	90 - 264VAC PF>0. 55@AC100V, full load 1.2A@100VAC Cold start 75A @230VAC				
Power factor (Typ.)					
Input current (Typ.)					
nrush current (Typ.)					
Standby input power	<0.5W	T	Τ	T	T
Efficiency (Typ.)	91%	92.5%	92.5%	92.5%	92.5%
Short circuit	Yes				
Over voltage	Yes Yes -				
Reverse polarity					
Over temperature					
Working temperature	-10 - +40 ℃ (Refer to " Derating Curve") 0 - 90% RH -40 - +70 ℃, 0 - 95% RH Natural convection 10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes				
Working humidity					
Storage temperature, humidity					
Cooling					
Vibration resistance					
Max. temperature rise	< 40°C on casing				
Hi-Pot Insulation	i/p to o/p: 3000V (1 min)				
Safety standards	IEC62368-1				
SAFETY&E MC(Note.6) EMC Emission EMC IMMUNITY	Parameter	Standard			Test Level I Note
	Conducted	EN55032FCCPART15			Class B
	Radiated	EN55032FCCPART15			Class B
	Harmonic Current	nic Current EN61000-3-2			
	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11				
MTBF					
	75*43*28.5mm (L*W*H)				
	· ·				
2.All parameters NOT spec3.This is Green suggested					
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5 5					
re-contirm that the who	ole system complies with the EMC directives. C cord is 1.5m 2*18AWG wires, DC terminal is defined when order.				
			amazina al II- al C	ت حاجم می مادی	
EN MI Din We 1. 2. 3. 4. 5.	IC IMMUNITY TBF mension eight Modification for charger sp and Green digital power All parameters NOT specia This is Green suggested i charging current limitation Derating may be needed i This protection mechanism The battery charger is	rest. temperature rise	AX. temperature rise - 40°C on casing - Pot Insulation - i/p to o/p: 3000V (1 min) - IEC62368-1 - Parameter	AX. temperature rise - 40°C on casing - Pot Insulation - i/p to o/p: 3000V (1 min) - i/ety standards - i/ety standards - i/ety standard - i/ety s	IC Emission Pot Insulation I/p to o/p: 3000V (1 min)

■ Block Diagram



■ Derating Curve



static Characteristics

