

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

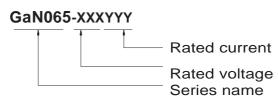
Applications

- •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

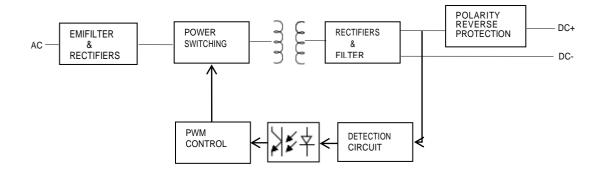




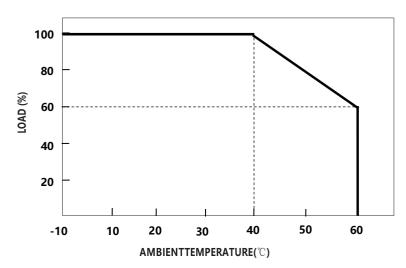
SPECIFICATION(Li-ion battery charger)

Charge voltage Charge voltage range Charge current Pre-charge current Charge-end current Rated power Recommended battery capacity Note.3 Leakage current from battery (Typ.)	8.4V±1% 5-8.4V 5A±10% 1A±10% ≤0.5A ±20% 42W 5 - 40Ah	12.6V±1% 7.5-12.6V 4A±10% 0.8A±10% <0.4A ±20% 50.4W 4 - 30Ah	16.8V±1% 10-16.8V 3.0A±10% 0.6A±10% <0.3A±20% 50.4W 3.5 - 30Ah	21.0V±1% 12.5-21.0V 2.4A±10% 0.48A±10% <0.24A±20%	29.4V±1% 17.5-29.4V 1.7A±10% 0.34A±10% ≤0.17A±20%
Charge voltage range Charge current Pre-charge current Charge-end current Rated power Recommended battery capacity Note.3 Leakage current from battery (Typ.)	5A±10% 1A±10% ≤0.5A ±20% 42W 5 - 40Ah	4A±10% 0.8A±10% ≤0.4A ±20% 50.4W	10-16.8V 3.0A±10% 0.6A±10% ≤0.3A±20% 50.4W	12.5-21.0V 2.4A±10% 0.48A±10% <0.24A±20%	17.5-29.4V 1.7A±10% 0.34A±10%
Charge current Pre-charge current Charge-end current Rated power Recommended battery capacity Note.3 Leakage current from battery (Typ.)	1A±10% ≤0.5A ±20% 42W 5 - 40Ah ≤2mA	0.8A±10% ≤0.4A ±20% 50.4W	0.6A±10% ≤0.3A±20% 50.4W	0.48A±10% ≤0.24A±20%	0.34A±10%
Pre-charge current Charge-end current Rated power Recommended battery capacity Note.3 Leakage current from battery (Typ.)	<0.5A ±20% 42W 5 - 40Ah ≤2mA	≤0.4A ±20% 50.4W	0.6A±10% ≤0.3A±20% 50.4W	0.48A±10% ≤0.24A±20%	0.34A±10%
Charge-end current Rated power Recommended battery capacity Note.3 Leakage current from battery (Typ.)	<0.5A ±20% 42W 5 - 40Ah ≤2mA	≤0.4A ±20% 50.4W	≤0.3A ±20% 50.4W	≤0.24A ±20%	
Rated power Recommended battery capacity Note.3 Leakage current from battery (Typ.)	42W 5 - 40Ah	50.4W	50.4W		
Recommended battery capacity Note.3 Leakage current from battery (Typ.)	5 - 40Ah ≤2mA				
Note.3 Leakage current from battery (Typ.)	≤2mA	4 - 30AII	1.5.5 - 5UAH	50.4W 3 - 30Ah	49.98W 2 -20Ah
			0.0 00/	3 - 30AH	2 -20AII
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				
nput voltage range Note.4	90 - 264VAC				
	<u> </u>				
nrush current (Typ.)					
Standby input power		I aa =a/	T 00 =0/	T = 0 = 0/	T a a = 2/
, , , , ,		92.5%	92.5%	92.5%	92.5%
Short circuit					
Over voltage					
	Yes				
Over temperature	-				
• •	, , ,				
•					
• • •	Natural convection				
Cooling					
/ibration resistance	10 - 50Hz, 2G 10min.	1cycle, 60min. each ald	ong X, Y, Z axes		
Max. temperature rise	< 40°C on casing				
Hi-Pot Insulation					
AFETY&E (Note.6) EMC Emission	IEC62368-1				
	Parameter	Standard			Test Level I Note
	Conducted	EN55032FCCPART15			Class B
	Radiated	EN55032FCCPART15			Class B
	Harmonic Current				
	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				
MTBF	30000H				
Dimension	75*43*28.5mm (L*W*H)				
Weight	120g				
and Green digital power	for details.	•			•
	, ,				
4. Derating may be needed u	under low input voltages.Please check the derating curve for more details.				
5. This protection mechanism 6. The battery charger is re-confirm that the who	n is specified for the considered as a le system comp	e case the short c in independent of lies with the EM	ircuit occurs after thunit, but the fina 1/10 directives.	ne charger is turned I equipment still	
	Input voltage range Note.4 Input current (Typ.) Input current (Iyp.) Inp	Acted input voltage 100 - 240VAC 50 / 60 Apput voltage range Note.4 90 - 264VAC Apput voltage range Note.4 90 - 264VAC Apput current (Typ.) 1.1A@115VAC Apput current (Typ.) 1.1A@115VAC Apput current (Typ.) Cold start 75A @230V Apput current (Typ.) 91% Apput current (Typ.) 1.1A@115VAC Apput current (Typ.) 1.1A@115	Acted input voltage 100 - 240VAC 50 / 60Hz 100 - 240VAC 50 / 60Hz 100 - 240VAC 100	Acted input voltage 100 - 240VAC 50 / 60Hz	100 - 240VAC 50 / 60Hz 20put voltage range 100 - 240VAC 50 / 60Hz 20put voltage range 100 - 240VAC 00 / full load 20put voltage range 20put voltage range 20put voltage range 20put voltage range 20put voltage 20put vo

■ Block Diagram



■ Derating Curve



static Characteristics

