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Features

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

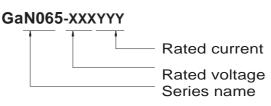
Applications

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

Description

GaN065 is a single output 65W AC/DC desktop type charger with 2 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).

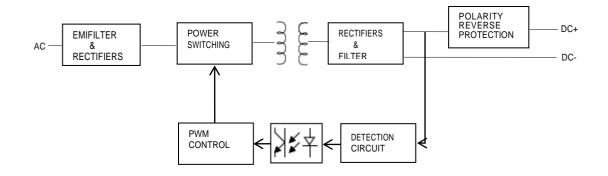
■ Mode Encoding



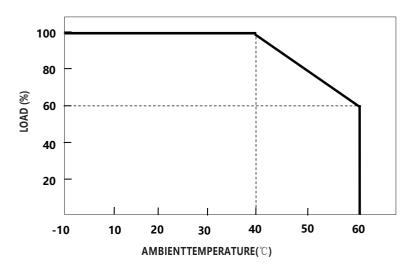
SPECIFICATION(Li-ion battery charger)

	MODEL	GaN065-084050	GaN065-126040	GaN065-168030	GaN065-210024	GaN065-294017
	Charge voltage	8.4V±1%	12.6V±1%	16.8V±1%	21.0V±1%	29.4V±1%
OUTPUT	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	-	-	-	-	-
	Charge-end current	≤0.5A ±20%	≤0.4A ±20%	≤0.3A±20%	≤0.24A ±20%	≤0.17A ±20%
	Rated power	42W	50.4W	50.4W	50.4W	49.98W
	Recommended battery capacity	5 - 40Ah	4 - 30Ah	3.5 - 30Ah	3 - 30Ah	2 -20Ah
	Note.3	3 - 40AII	4 - 30/11	3.3 - 30AII	3 - 30AII	2 -20AII
	Leakage current from battery (Typ.)	.) <2mA				
CHARGE NDICATOR	LED indication	Red: Charging. Green: Full or Idle				
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz				
	Input voltage range Note.4	90 - 264VAC PF>0. 55@AC100V, full load				
	Power factor (Typ.)	PF>0. 55@AC100V, full load 1.2A@10VAC				
	Input current (Typ.)	1.2A@10VAC Cold start 75A @230VAC				
	Inrush current (Typ.)	Cold start 75A @230VAC				
	Standby input power Efficiency (Typ.)	91%	92.5%	92.5%	92.5%	92.5%
	Short circuit	Yes	92.576	92.570	92.570	92.576
PROTECTION		Yes				
	Over voltage	Yes				
	Reverse polarity	Yes				
	Over temperature Working temperature	40 40°C (Defeate Deveting Come)				
SAFETY&E MC (Note.6)	• .	-10 - +40 ℃ (Refer to " Derating Curve") 0 - 90% RH				
	Working humidity					
	Storage temperature, humidity	-40 - +70 ℃, 0 - 95% RH Natural convection				
	Cooling Vibration resistance					
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes				
	Max. temperature rise	< 40 °C on casing i/p to o/p: 3000V (1 min)				
	Hi-Pot Insulation	IEC62368-1				
	Safety standards	Parameter Standard Test Level I Note				
	EMC Emission	Conducted	EN55032FCCPART15			Class B
		Radiated	EN55032FCCPART15			Class B
		Harmonic Current	EN61000-3-2			
		Voltage Flicker				
	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	11111				
	Weight	75*43*28.5mm (L*W*H) 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 3. 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

