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Features

- Charger for lithium 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, 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

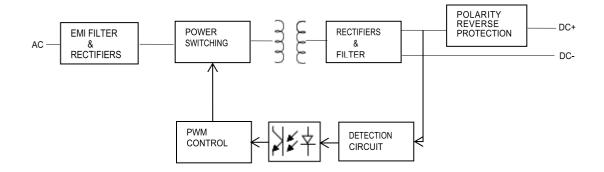
GaN065 is a single output 65W AC/DC desktop type charger with 4 and 3 stage charging curve, The different curves are suitable for different batteries, such as Lead- acid batteries (gel, flooded and AGM) and Lithium batteries (Li-ion,LiFePO4 and Lithium manganese).

■ Mode Encoding

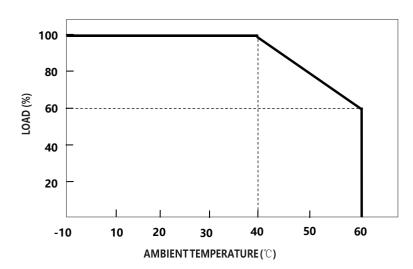
GaN065-XXXYYY Rated current Rated voltage Series name

	ICATION(Li-ion hatter) MODEL	GaN065-084050	GaN065-126040	GaN065-168035	GaN065-210030	GaN065-294020
	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%	3.5A±10%	3A+10%	2A±10%
	Pre-charge current	1A±10%	0.8A±10%	0.7A±10%	3A±10%	0.4A±10%
	Charge-end current	≤0.5A ±20%	≤0.4A ±20%	≤0.35A ±20%	≤0.3A ±20%	≤0.2A ±20%
	Rated power	42W	50.4W	58.8W	63W	58.8W
	Recommended battery capacity	5 - 40Ah	4 - 30Ah	3.5 - 30Ah	3 - 30Ah	2 -20Ah
	Note.3	0 10/11	1 00/111	0.0 00/111	0 00/111	2 20/111
	Leakage current from battery (Typ.)	≤1mA				
CHARGE NDICATOR	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 91%	92.5%	92.5%	92.5%	92.5%
	Efficiency (Typ.) Short circuit	Yes	92.5%	92.5%	92.5%	92.5%
PROTECTION						
	Over voltage	Yes				
	Reverse polarity	Yes				
	Over temperature					
ENVIRONMENT	Working temperature	-10 - +40℃ (Refer to " Derating Curve") 0 - 90% RH				
	Working humidity	0 - 90% RH -40 - +70℃, 0 - 95% RH				
	Storage temperature, humidity	Natural convection				
	Cooling					
SAFETY & EMC(NOTE 6)	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes				
	Max. temperature rise Hi-Pot Insulation	< 40°C on casing				
		i/p to o/p: 3000V (1 min)				
	Safety standards		1			T= (1 118) (
	EMC Emission	Parameter	standard EN55032 FCCPART	15		Class B
		Conducted Radiated				
						Class B
	EMC IMMUNITY	Voltage Flicker				
		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	75*43*28.5mm (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. 3. 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*AWG18 wires, DC terminal is defined when order					

■ Block Diagram



Derating Curve



■ static Characteristics

