

### GaN065 series



# CE

#### 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

#### 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
GaN065-XXXYYY
Rated current
Rated voltage
Series name

Applications

Power tools & Drones
Electric scooter
Surveillance system
Consumer electronic devices



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	MODEL	GaN065-148033	G	aN065-296017	
Charge voltage (High voltage)		14.8V±1%	29	9.6V±1%	
OUTPUT	Charge voltage range	10-14.8V		20-29.6V	
	Float charge (Low voltage)	13.8V±1%		27.6V±1%	
	Charge current	3.3A±10%		1.7A±10%	
	Charge-end current	≤0.66A ±20%		≤0.34A ±20%	
	Rated power	48.84W		50.32W	
	Recommended battery capacity	20 - 40Ah		10 - 20Ah	
	Note.3				
CHARGE	Leakage current from battery (Typ.)				
NDICATOR	LED indication	Red: Charging. Green: Full or Idle			
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.)	1.1@115VAC 0.55A@230VAC			
	Inrush current (Typ.)	Cold start 75A @230VAC			
	Standby input power	<0.5W			
	Efficiency (Typ.)	92.5%			
PROTECTION	Short circuit	Yes			
	Over voltage	Yes			
	Reverse polarity	Yes			
	Over temperature				
ENVIRONMENT	Working temperature	-10 - +40℃ (Refer to " Derating Curve")			
	Working humidity	0 - 90% RH			
	Storage temperature, humidity	-40 - +70℃, 0 - 95% RH			
	Cooling	Natural convection			
	Vibration resistance	10 - 50Hz, 2G 10min. 1cycle, 60min. each along X, Y, Z axes			
SAFETY&E MC(Note.6)	Max. temperature rise	$< 40^{\circ}$ C on casing			
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)			
	Safety standards	IEC62368-1			
	EMC Emission	Parameter	Standard		Test Level I Note
		Conducted	EN55032 FCC PART15		Class B
		Radiated	EN55032 FCC PART15		Class B
		Harmonic Current	ent EN61000-3-2		
		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			
OTHERS	MTBF	30000H			
	Dimension	75*43*28.5mm (L*W*H)			
	Weight	120g			
NOTE	<ol> <li>Modification for charger specification may be required for different battery specification. Please contact battery vendor and Green digital power for details.</li> <li>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.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.</li> <li>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.</li> <li>AC Inlet is ICE320-C8, DC cord is 1.5m 2*18AWG wires, DC terminal is defined when order.</li> </ol>				

#### **GREEN** 65W GaNBattery Charger

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