



■ Features

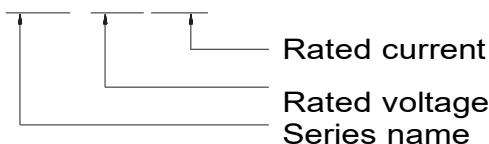
- AC/DC desktop power adapter
- Small size
- High efficiency, >90% at AC 90V input
- Universal AC input, wide range cover 90~264V
- Meet EN62368, EN55032, EN61000 & UL62368
- Protection: Short circuit / Over voltage /Overcurrent
- 1 years warranty

■ Applications

- IT equipment, such as Laptop
- Consumer electronic devices
- Surveillance system
- Home appliances

■ Mode Encoding

GaN085-XXXXYY



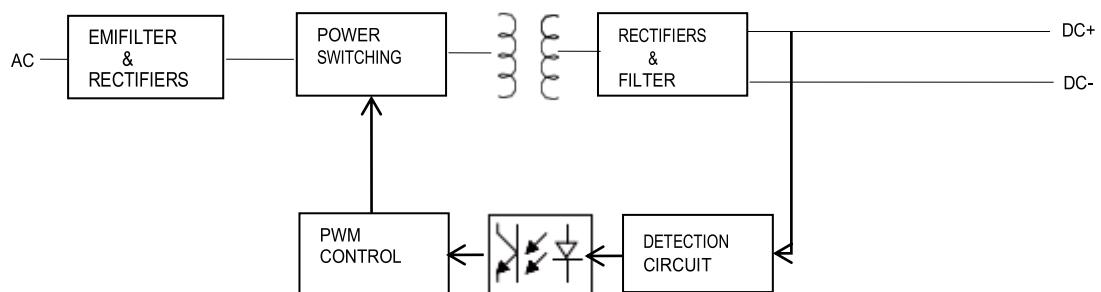
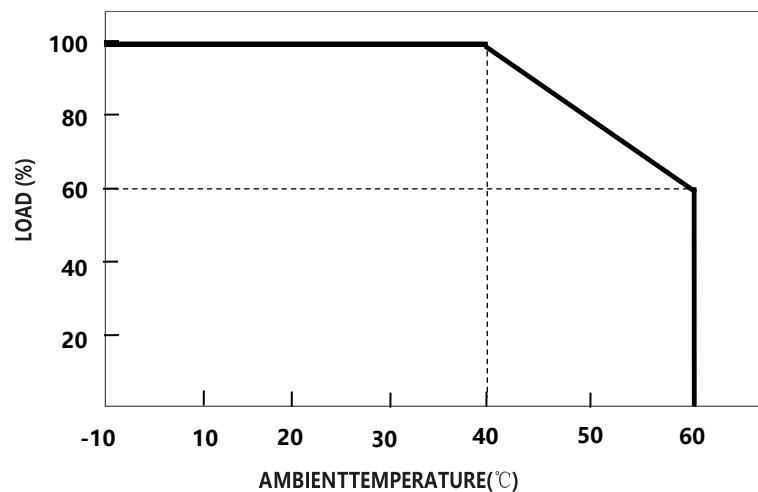
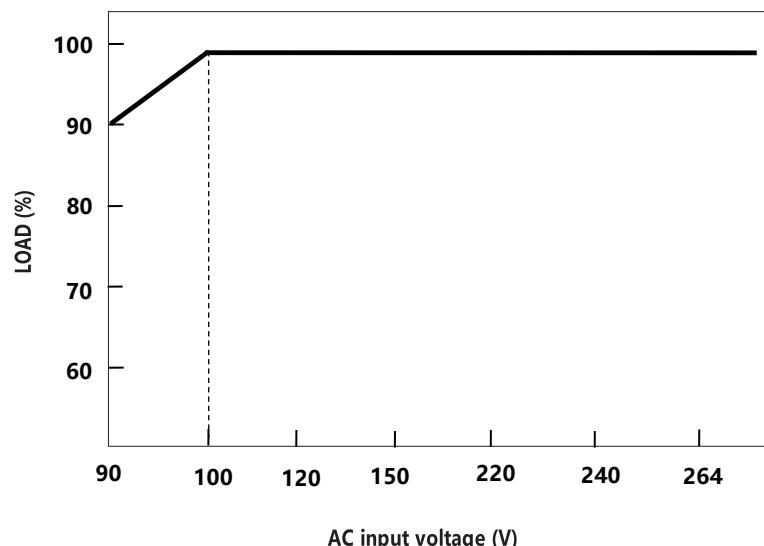


85W GaN Power Adapter

GaN085 series

SPECIFICATION

MODEL		GaN085-120060	GaN085-190043	GaN085-240035	GaN085-480018		
OUTPUT	Voltage	12V±5%	19V±5%	24V±5%	48V±5%		
	current	0-6A	0-4.3A	0-3.5A	0-1.8A		
	Rated power	72W	81.7W	84W	86.4W		
	Voltage regulation	1%					
	Load regulation	5%					
	Start-up time	1000mS (Input:115VAC Output: Full load)					
	Rise time	30mS (Input:115VAC Output: Full load)					
	Hold time	15mS (Input:115VAC Output: Full load)					
	Ripple voltage	≤Vo*1% (20MHz, AC coupling mode, connected in parallel with 0.1uf ceramic capacitor and 47uf electrolytic capacitor)					
	LED display	Red LED					
INPUT	Rated input voltage	100 - 240VAC 50 / 60Hz					
	Input voltage range Note.2	90 - 264VAC					
	Power factor (Typ.)	PF>0.55 @AC100V, Full load					
	Input current (Typ.)	1.7A@100VAC					
	Inrush current (Typ.)	75A/230VAC (cold start)					
	Standby input power	<0.5W					
PROTECTION	Short circuit	Yes					
	Over voltage	Yes					
	Over current	Yes					
	Over temperature	-					
ENVIRONMENT	Working temperature	-10 - +40°C (Refer to "Derating Curve")					
	Working humidity	0 - 90% RH					
	Storage temperature, humidity	-40 - +70°C, 0 - 95% RH					
	Cooling	Natural convection					
	Vibration resistance	10-50Hz, 2G 10min.1cycle, 60min.each along X, Y, Z axes					
SAFETY&EMC (Note.3)	Max. temperature rise	< 40°C on casing					
	Hi-Pot Insulation	i/p to o/p: 3000V (1 min)					
	Safety approval	CE/PSE/cETLus/ SAA/CB /FCC/UK					
	EMC Emission	Parameter	Standard	Test Level I Note			
		Conducted	EN55032FCCPART15	Class B			
		Radiated	EN55032FCCPART15	Class B			
		Harmonic Current	EN61000-3-2			
	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	114*68.4*29mm(L*W*H)					
	Weight	250g					
NOTE	1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the derating curve for more details. 3. The power unit is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. 4. AC Inlet is ICE320-C8, DC cord is 1.5m 2*AWG18 wires, DC terminal is defined when order.						

Block Diagram**Derating Curve****Block Diagram**

■ Mechanical specification

