## ■ 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-XXXYYY**

Rated current

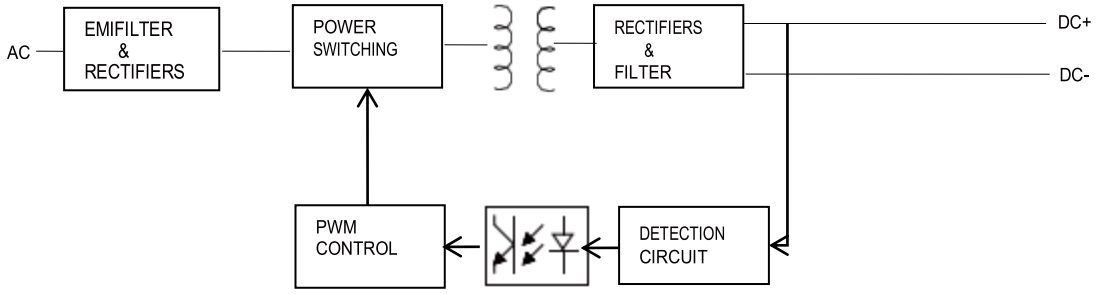
Rated voltage

Series name

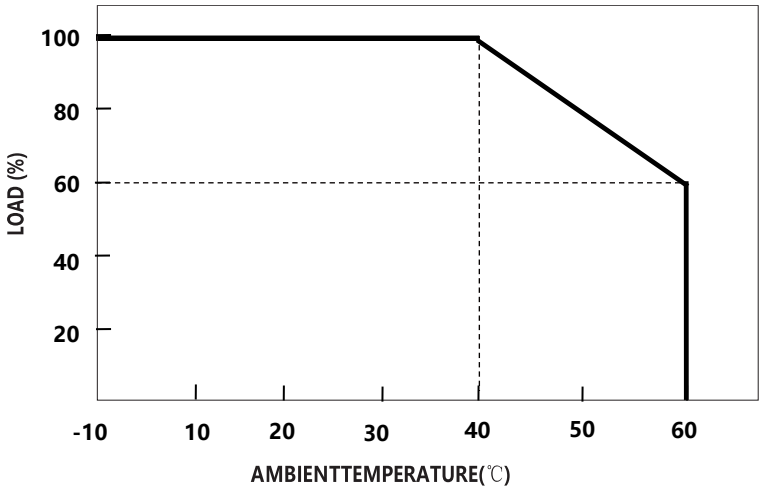
SPECIFICATION*(Only the adopted models are listed in table, for other output please reach our sales)*

| 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%<br>(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 | | | |
| | Efficiency (Typ.) | 93% | 93.5% | 93.5% | 92% |
| PROTECTION | Short circuit | Yes | | | |
| | Over voltage | Yes | | | |
| | Over current | 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,2G10min.1cycle,60min.eachalongX,Y,Zaxes | | | |
| SAFETY&EMC (Note.3) | Max. temperature rise | < 40℃ 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 | ..... | |
| | | 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 | 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℃ of ambient temperature.<br>2. Derating may be needed under low in put voltages. Please check the derating curve for more details.<br>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.<br>4. AC Inlet is ICE320-C8, DC cord is 1.5m 2*AWG18 wires, DC terminal is defined when order. | | | | |

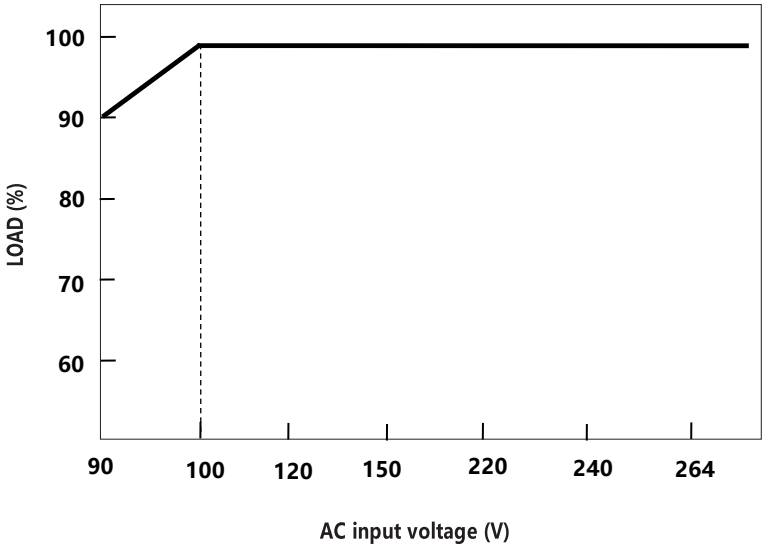
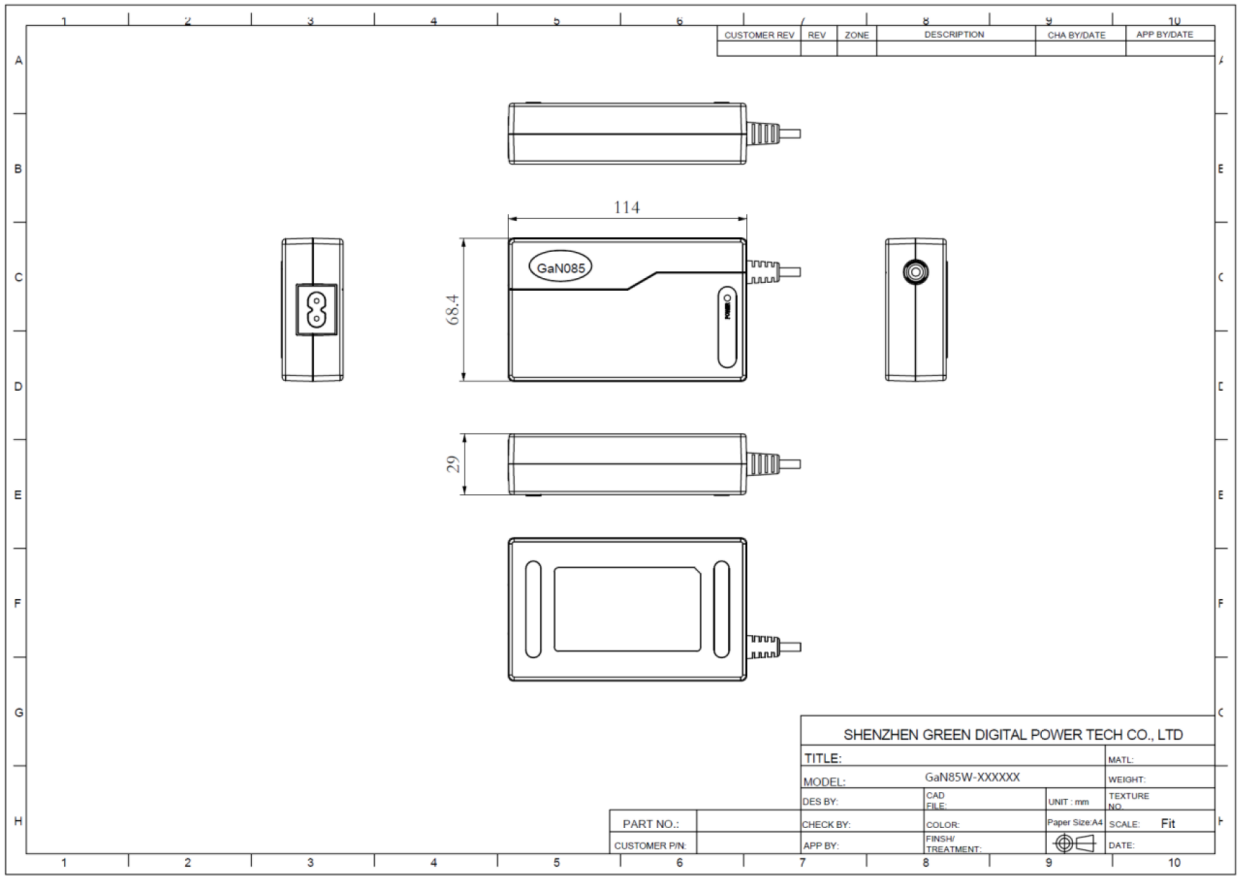
## Block Diagram




## Derating Curve




## Block Diagram



## ■ Mechanical specification