■ Features

•AC/DC desktop power adapter

•Small size, only 1/2 size of traditional product

•High efficiency, >91% at AC 100V 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

GaN170-XXXYYY

Rated current, 2.8~12A, YYY=035 means 3.5A

Rated voltage, 12~60V, XXX=240 means 24.0V

Series name

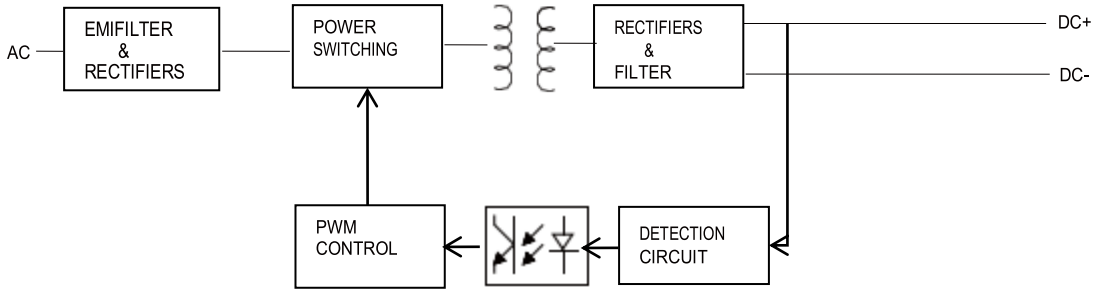
SPECIFICATION *(Only the adopted models are listed in table, for other output please reach our sales)*

MODEL		GaN170-120120	GaN170-190080	GaN170-240070	GaN170-480035
OUTPUT	Voltage	12V±5%	19V±5%	24V±5%	48V±5%
	Rating output current	12A	8.0A	7.0A	3.5A
	Rated output power	144W	152W	168W	168W
	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. 95 @AC100V,Full load			
	Input current (Typ.)	2.0A@100VAC			
	Inrush current (Typ.)	75A/230VAC (cold start)			
	Standby input power	<0.5W			
	Efficiency (Typ.)	92%	93%	94%	94%
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	350g			

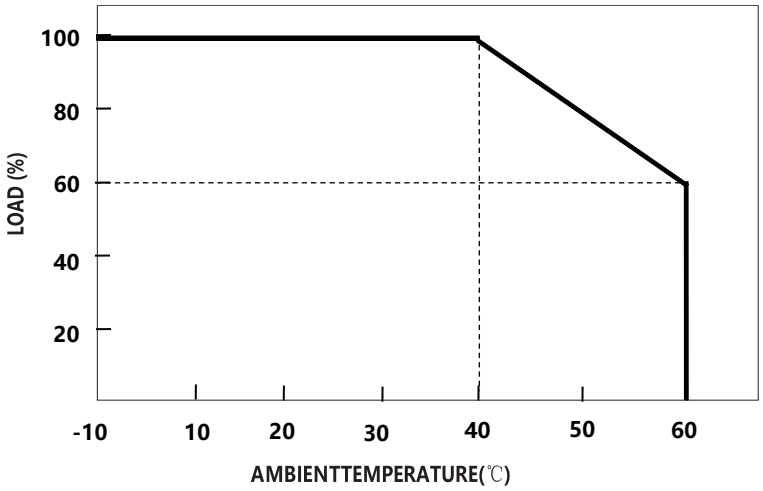
NOTE

1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25℃ of ambient temperature.
2. Derating may be needed under low in put 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.

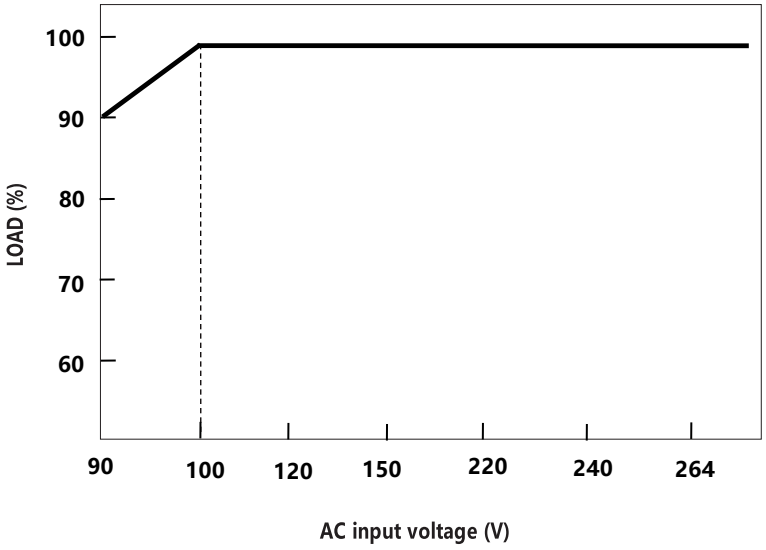
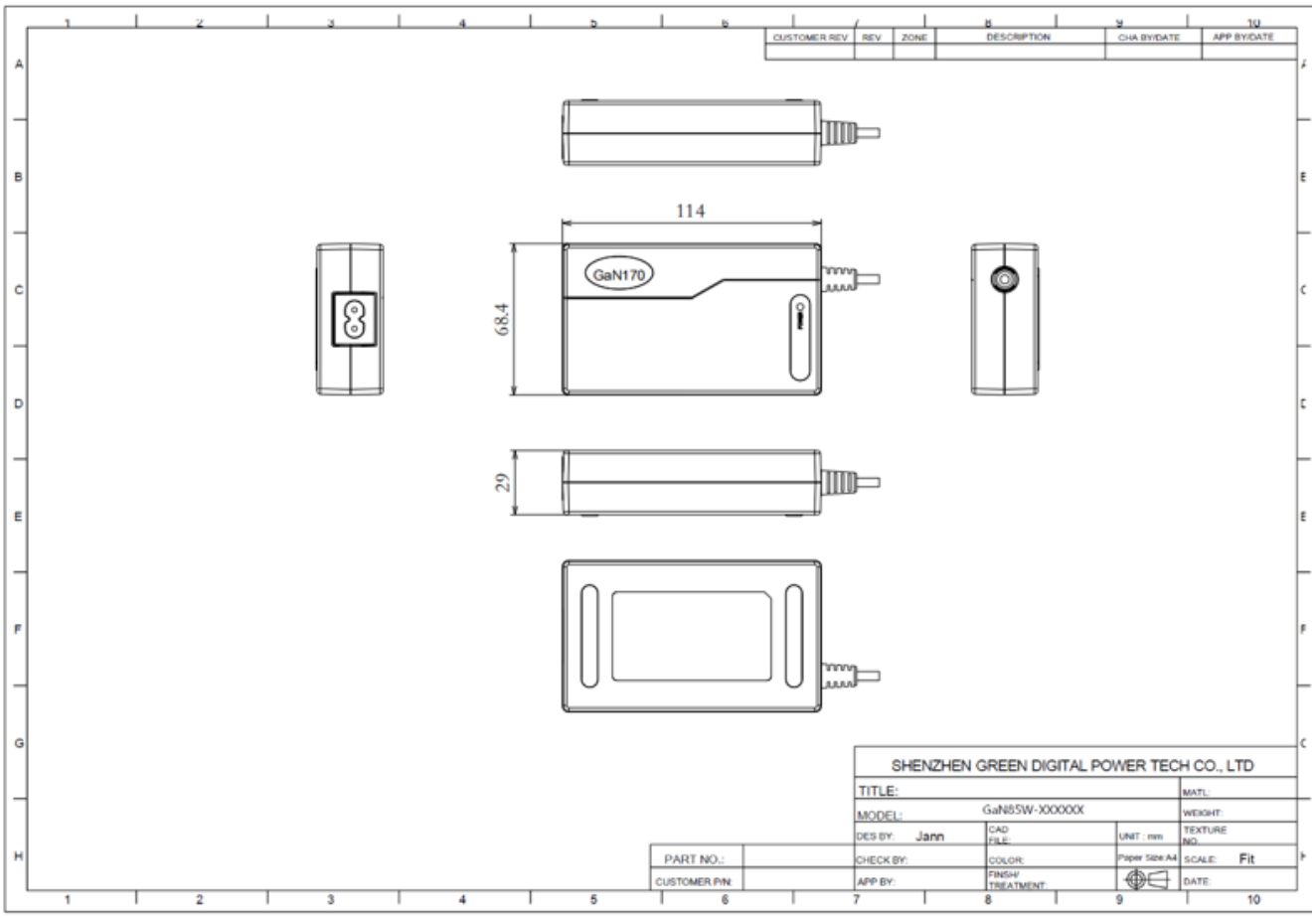
Block Diagram



Derating Curve



Block Diagram



■ Mechanical specification