Features:

- Universal AC input range(85~264Vac)
- Support 1+1 or N+1 redundant system（suggest to use redundancy modules.）
- Built-in active PFC,PF>0.95
- High efficiency up to 94%
- Built-in current sharing function
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-25℃~70℃)
- 150%(720W) peak load capacity
- Easy Fuse Tripping due to High Overload Current
- Built-in DC OK relay contact
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Ultra-slim,70mm width
- Free air convection
- 3 years warranty

c UL us LISTED IND. CONT. EQ. UL 508 c TÜV us UL 60950-1 CB CE Parallel PFC

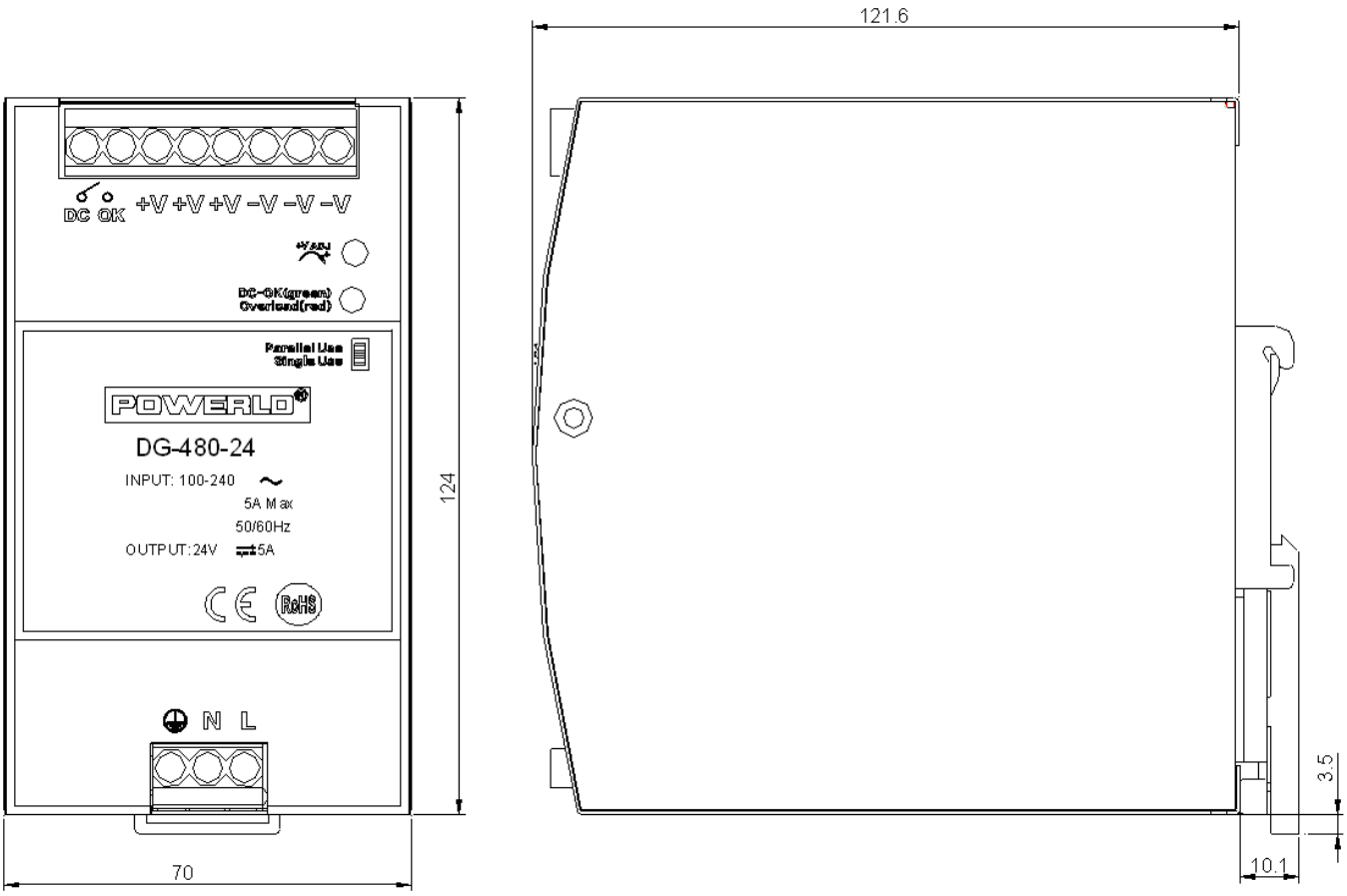
SPECIFICATION

MODEL			DG-480-24	DG-480-48
OUTPUT	DC Output		24V	48V
	Rated Current		20A	10A
	Current Range	Note 1	0~20A	0~10A
	Ripple and Noise	0~70℃	≤240mV	≤480mV
	Note 2	-25℃	≤480mV	≤480mV
	Voltage ADJ. Range		24~28V	48~56V
	Voltage Accuracy		±3.0%	
	Line Regulation		±0.5%	
	Load Regulation		±1.0%	
	Set-up Time		<3S@230Vac	
	Hold up Time		≥20mS(230Vac input, Full load)	
	Temperature Coefficient		±0.03%/℃	
	Overshoot and Undershoot		<5.0%	
INPUT	Voltage Range		85Vac~264Vac, 130Vdc-350Vdc	
	Frequency Range		47Hz~63Hz	
	Power Factor (typical)		0.99/110Vac 0.95/230Vac	
	Efficiency (Typical)		93.8%	93.8%
	AC Current (max.)		<7.0 A/100Vac <3.5A/230Vac	
	Inrush Current (Typical)		＜20A/110Vac ＜40A/230Vac Cold start	
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA	
PROTECTION	Over Load		110%~150% of rated current, Constant current limiting for some time(150% of rated current, last 3S) then PS stop working for 7S,after 7S,if the load <=rated current, PS will work normally, auto recovery	
	Over voltage		28.8~33V, constant voltage, Auto recovery	58~63V, constant voltage, Auto recovery
	Over temperature		115±5℃, detect on temperature controller; shut down O/P, auto recovery after temperature goes down.	
	Short Circuit		Long-term mode, auto recovery	
ENVIRONMENT	Operating amb. Temp. & Hum.		-25℃~70℃； 20%~90%RH No condensing	
	Storage Temp. & Hum.		-40℃~85℃； 5%~95%RH No condensing	
SAFETY &EMC Note 3	Safety Standards		meet UL508, UL60950, EN60950	
	Withstand Voltage		Primary-Secondary: 3.0KVac/10mA .Primary-PG: 2.5KVac/10mA. Secondary-PG:0.5KVac/20mA. Output-DC OK: 0.5KVac/1mA	
	Isolation Resistance		10M ohms	
	EMC Emission		Compliance to EN55022, EN55024, FCC PART 15 Class B	
	Harmonic Current		Compliance to EN61000-3-2, CLASS A	
	EMC Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level	

OTHERS	MTBF (MIL-HDBK-217F)	More than 300,000Hrs (25℃, Full load)
	Dimension (L*W*H)	70*124*127mm
	Packing	10pcs/CTN, 13Kgs/CTN, 0.04cbm
	Cooling method	Cooling by free air convection
Additional function	Power boost	150% of rated current
	Parallel function	support
	DC-OK	V On: when output voltage is up to 90% of rated output voltage
		V Off: when output voltage is down to 80% of rated output voltage
	DC-OK relay contact rating	Max 30V/1A or 60V/0.3A or 30Vac/0.3A Resistive load
NOTE	1. All parameters NOT specially mentioned are measured at rated input, rated load and 25℃ of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on http://www.powerld.com.cn.	

■ Mechanical Specification

Unit: mm



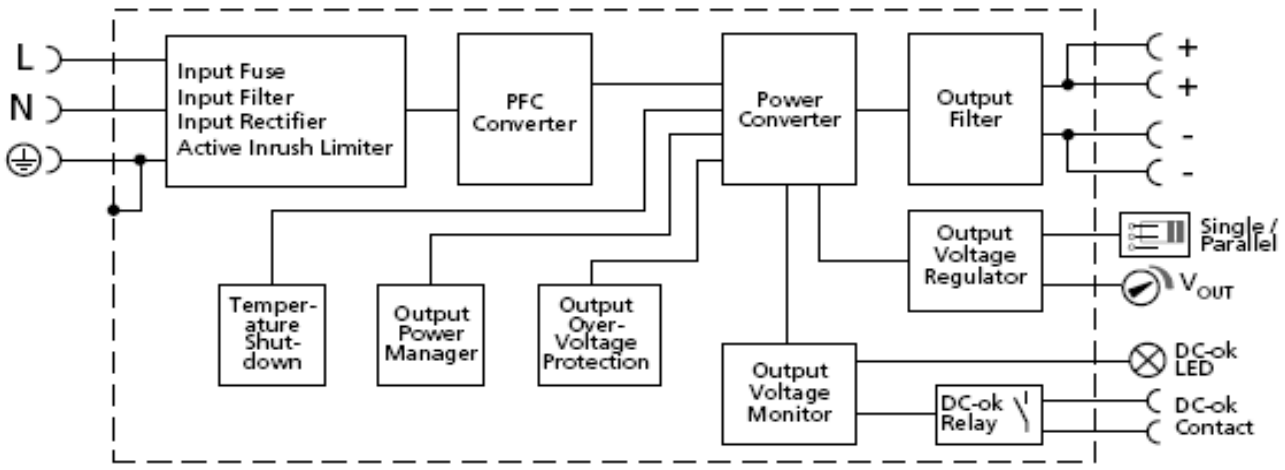
1.AC terminal blocks installation information		
Terminal No.	Function	Specs
1	PG	6.35mm, 3pin screw terminal blocks
2	N	
3	L	

2.DC terminal blocks installation information		
Terminal No.	Function	Specs
1	DC	6.35mm, 3pin screw terminal blocks
2	OK	
3~5	V+	
6~8	V-	

	AC/DC Terminal
Type	Screw terminal blocks
Solid Wire	0.5-6mm^2
Strand Wire	0.5-4mm^2
Wire Spec	AWG20-10 (PG wire >18AWG)
Max Wire Diameter	2.8mm
Recommended stripping length	7mm
Screwdriver	3.5mm Straight or Cross Screwdriver
Recommended Torque	1NM

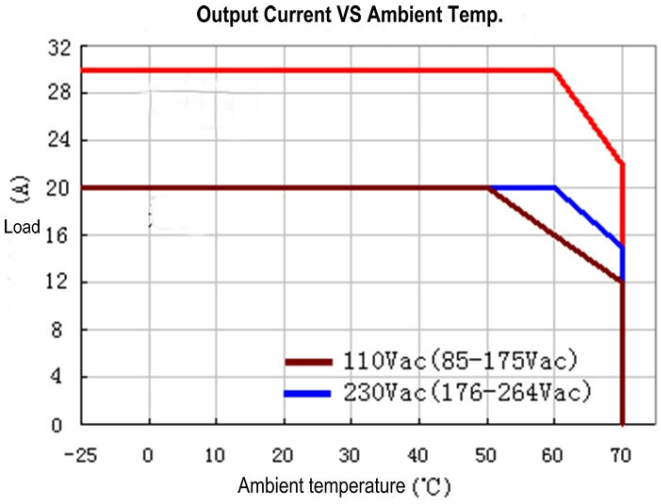
■ Block Diagram

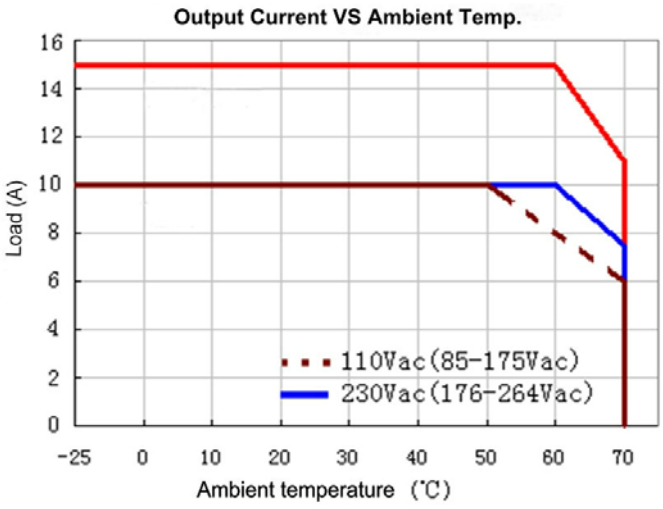
Fig. 11-1 **Functional diagram**



■ Derating Curve

DG-480-24 DG-480-48





short time working,3S

continuous working

■ Mounting method instruction

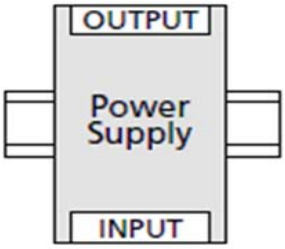
A1 is recommended output current

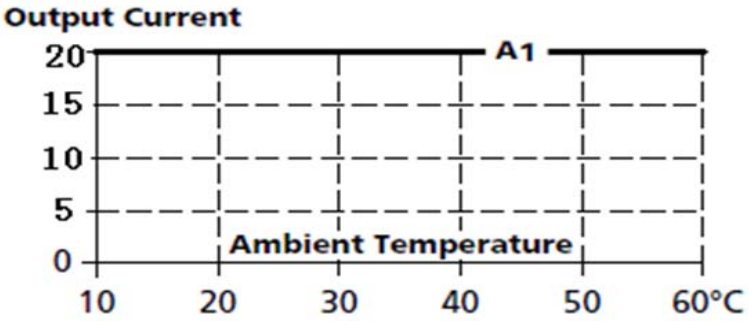
A2 is the allowed max output current (PSU lifetime is around half of A1)

Below curves are tested under 230Vac(179~264Vac), when 110Vac input(85~175Vac), all derating points drops 10℃

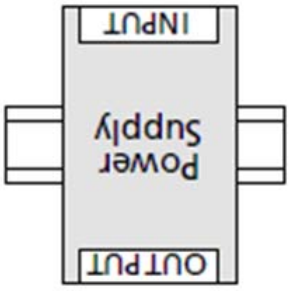
DG-480-24

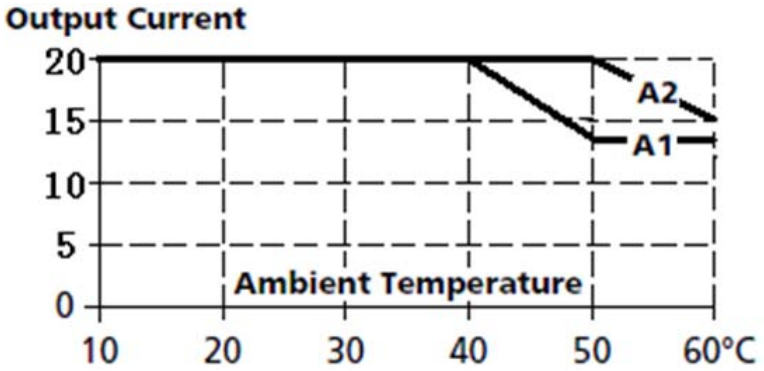
Mounting A



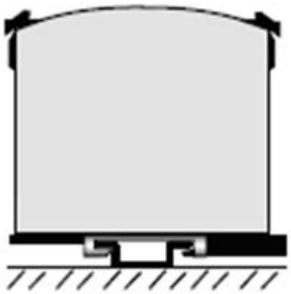


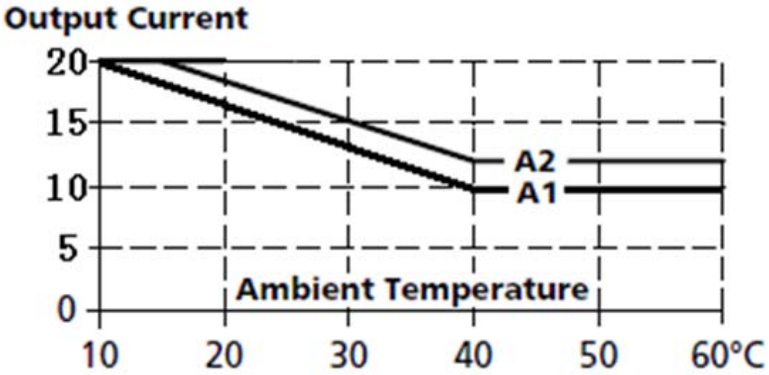
Mounting B



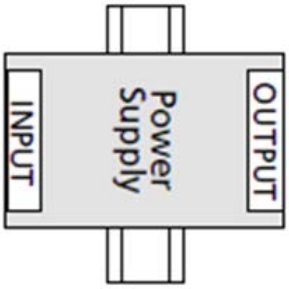


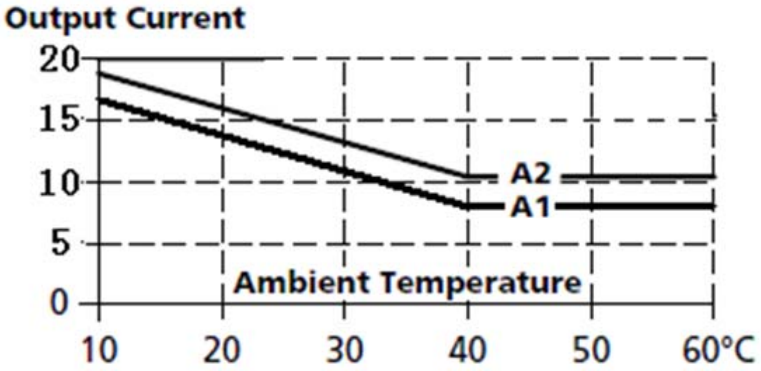
Mounting C



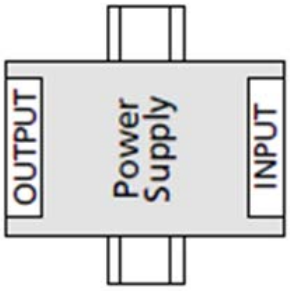


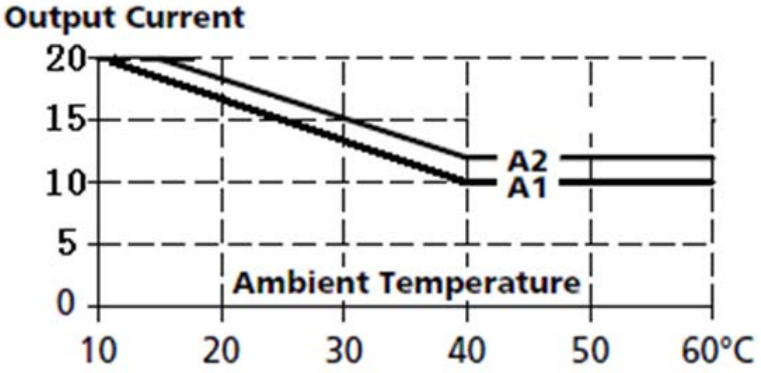
Mounting D





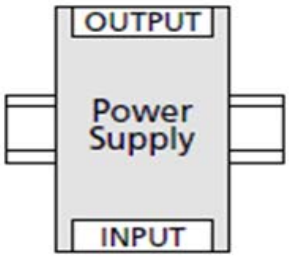
Mounting E

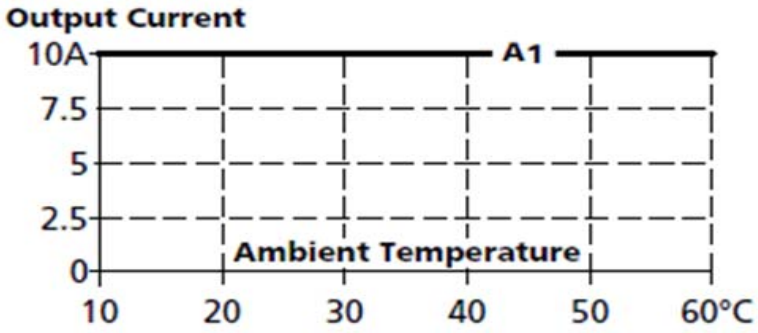




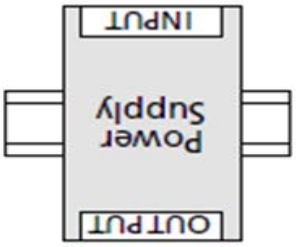
DG-480-48

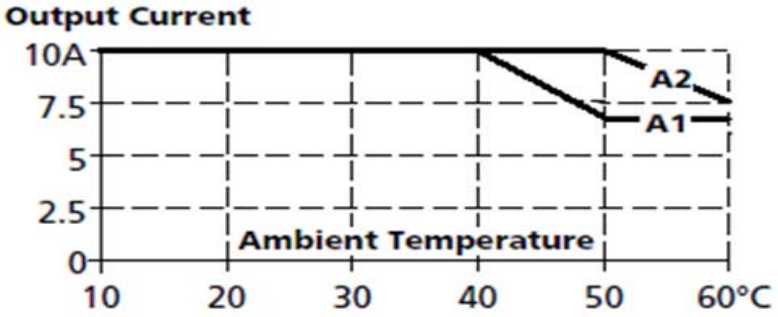
Mounting A



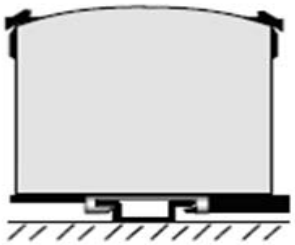


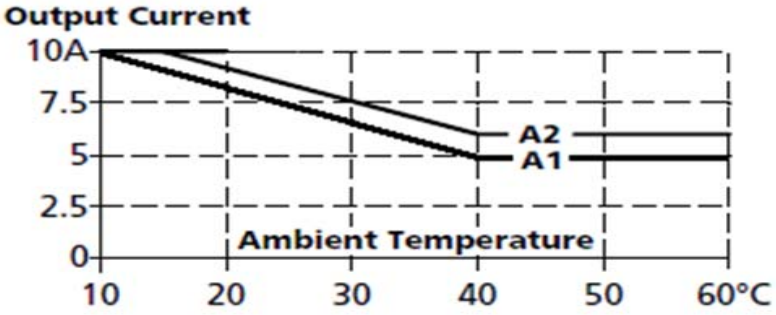
Mounting B



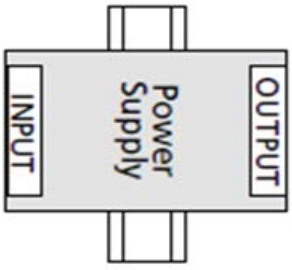


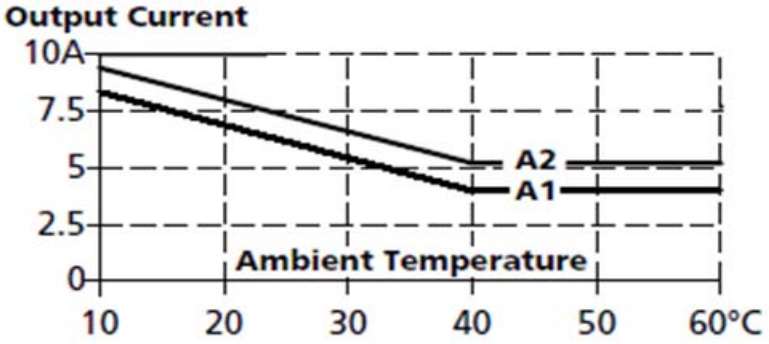
Mounting C





Mounting D





Mounting E