


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 93%
- Built-in current sharing function
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-25℃~70℃)
- 150%(540W) peak load capacity
- Excellent Partial Load Efficiency
- 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, 50mm width
- Free air convection
- 3 years warranty

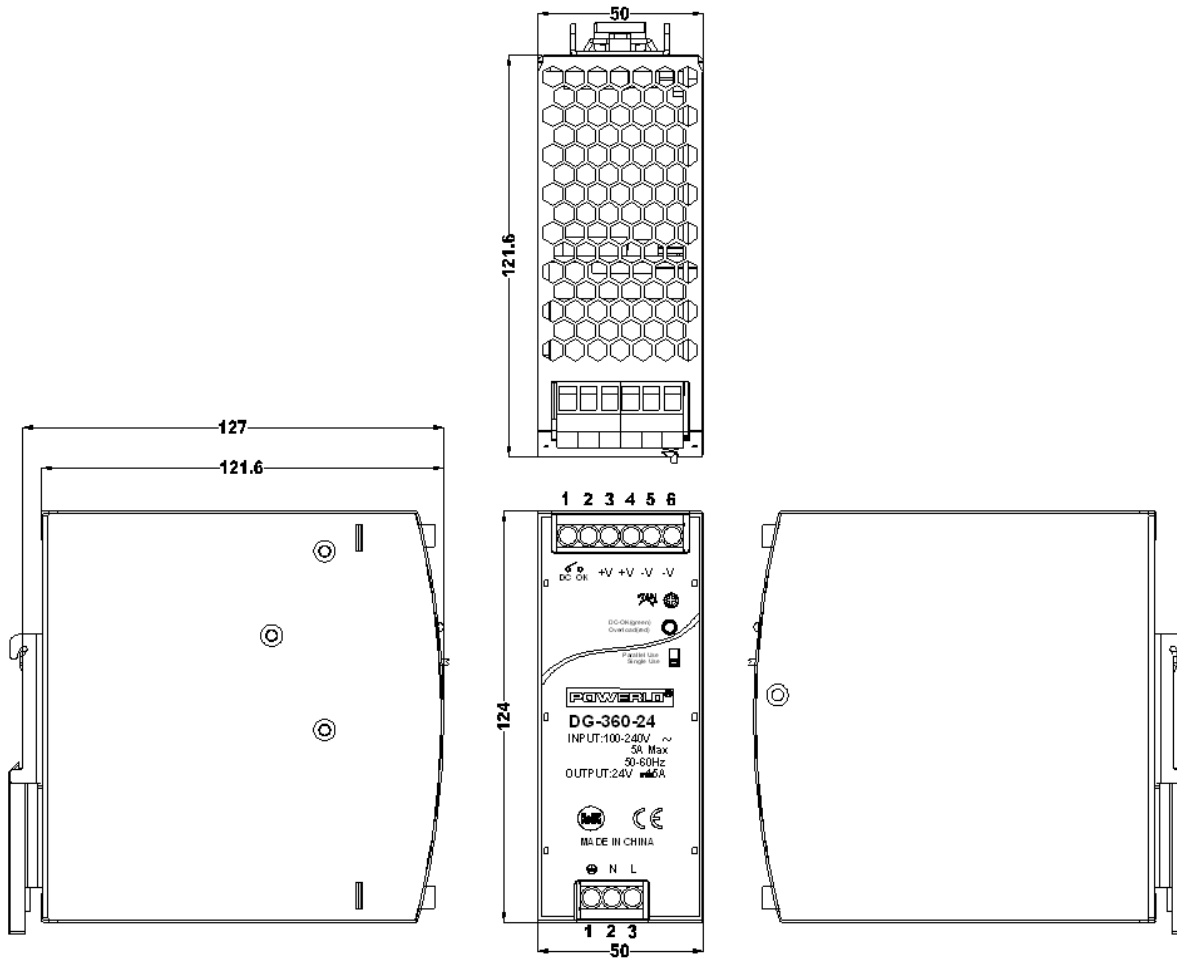
SPECIFICATION

MODEL		DG-360-24	DG-360-36	DG-360-48	
OUTPUT	DC Output	24V	36V	48V	
	Rated Current	15A	10A	7.5A	
	Current Range	Note 1 0~15A	0~10A	0~7.5A	
	Ripple and Noise	0~70℃	≤240mV	≤240mV	≤480mV
		Note 2 -25℃	≤480mV	≤480mV	≤720mV
	Voltage ADJ. Range	24~28V	34~37.5V	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, 127Vdc-375Vdc			
	Frequency Range	47Hz~63Hz			
	Power Factor (typical)	0.99/110Vac	0.95/230Vac	full load	
	Efficiency (Typical) at 230Vac	≥93%		≥92.5%	
	AC Current (max.)	<5A/100Vac	<2.5A/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	29~33V, constant voltage, Auto recovery	39~43V, constant voltage Auto recovery	58~63V, constant voltage Auto recovery	
	Over temperature	115±5℃, detect on heat sink of power transistor; 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)	50*124*127mm
	Packing	12pcs/CTN, 11Kgs/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	<p>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25℃ of ambient temperature.</p> <p>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.</p> <p>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.</p>	

Mechanical Specification

Unit: mm



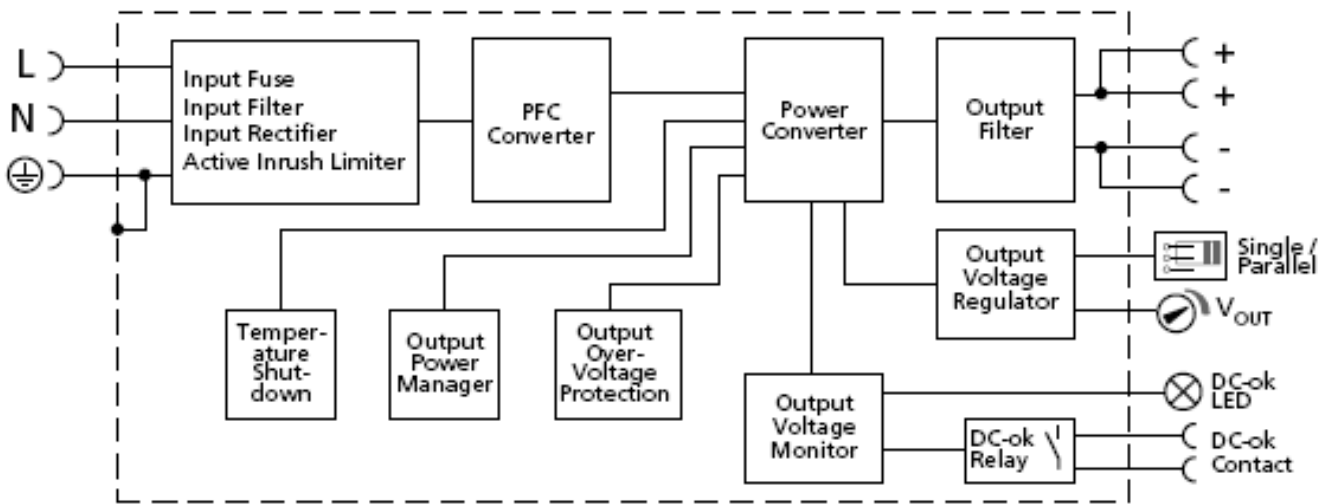
1.AC terminal blocks installation information		
Terminal No.	Function	Specs
1	PG	6.35mm, 3pin screw terminal blocks
2	N	
3	L	

2.DC terminal blocks installation information		
Terminal No.	Function	Specs
1	DC	6.35mm, 3pin screw terminal blocks
2	OK	
3~4	V+	
5~6	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-360-24

DG-360-36

图6-1 输出电流VS环境温度 @24V typ

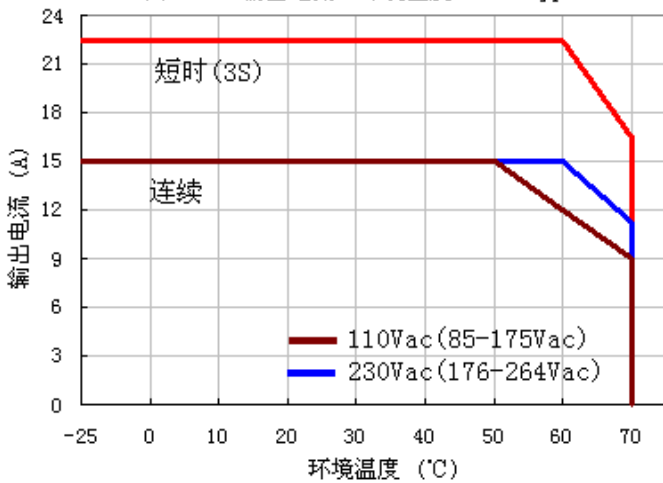
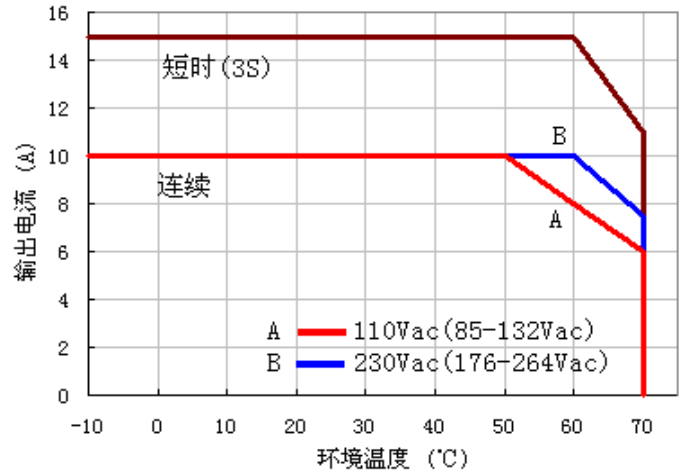
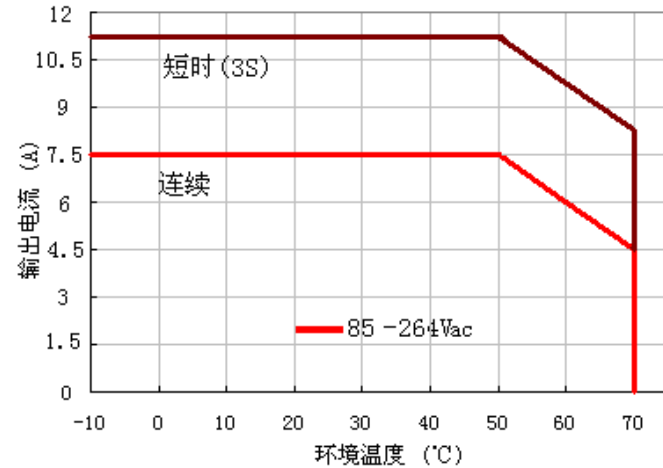


图6-2 输出电流VS环境温度 @ 额定输出电压



DG-360-48

图6-2 输出电流VS环境温度 @ 额定输出电压



- short time working,3S
- continuous working

■ **Mounting method instruction**

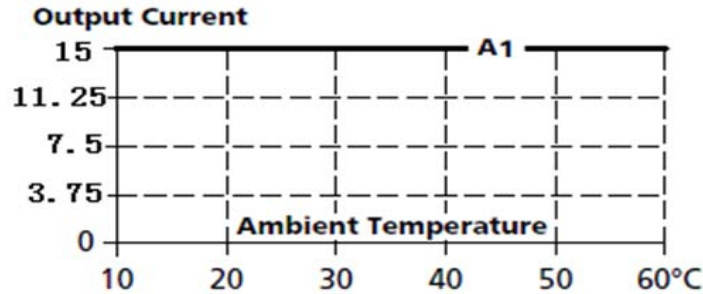
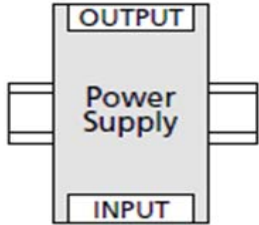
A1 is recommended output current

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

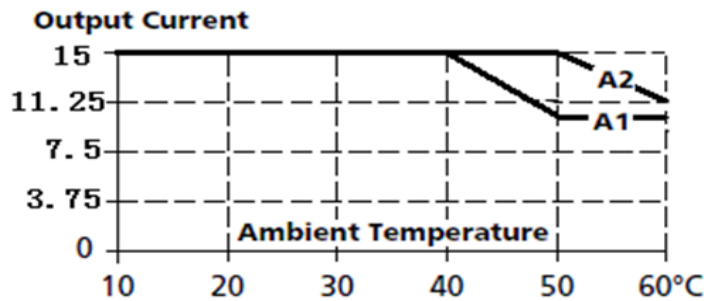
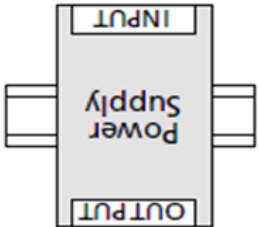
Below curves are tested under 230Vac(179~264Vac), when 110Vac input(85~175Vac), all derating points drops 10°C

DG-360-24

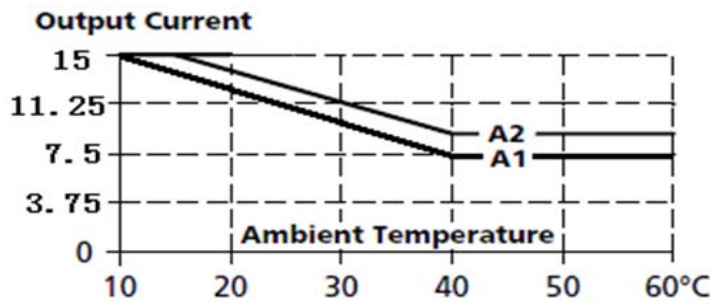
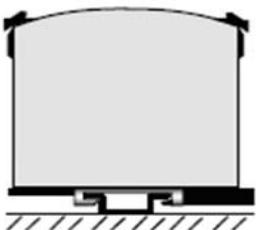
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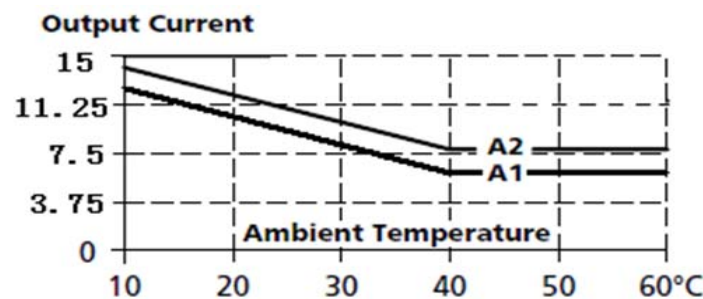
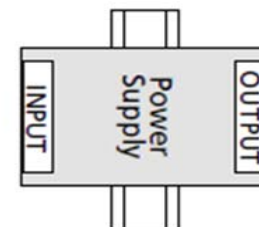
Mounting B



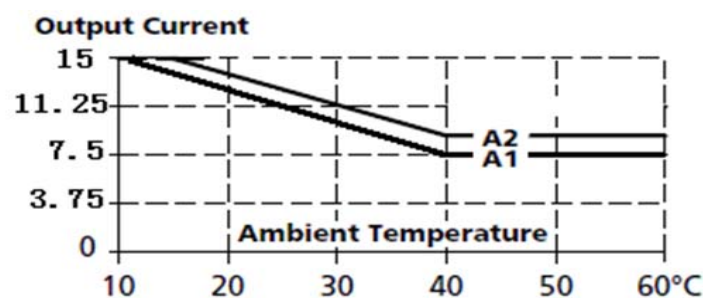
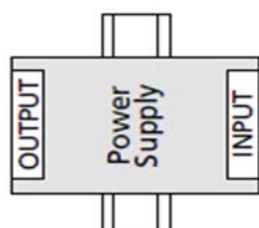
Mounting C



Mounting D

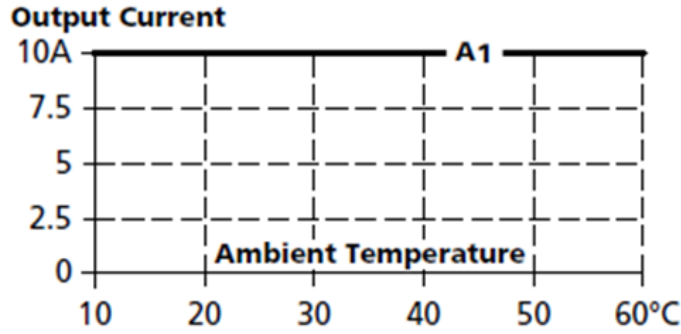
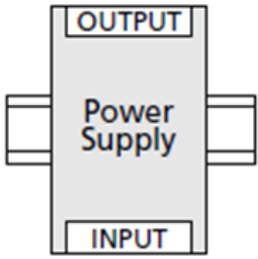


Mounting E

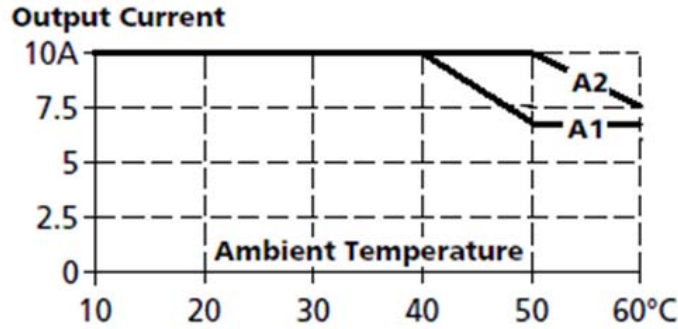
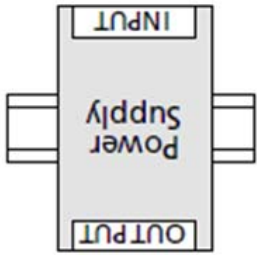


DG-360-36

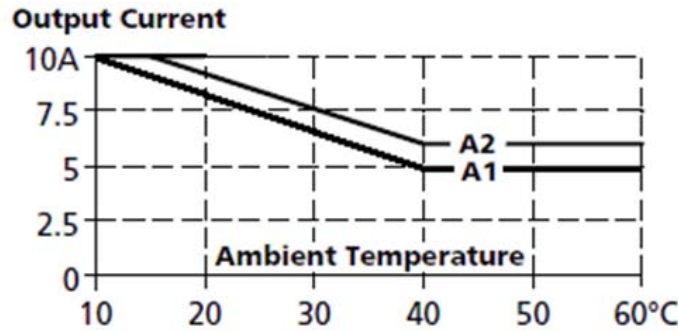
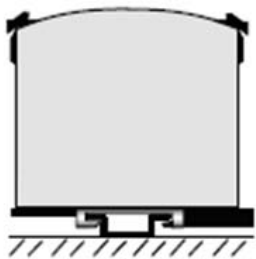
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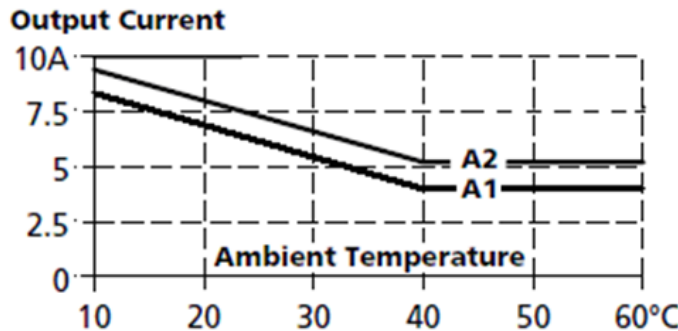
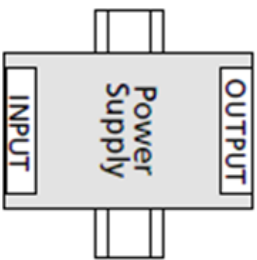
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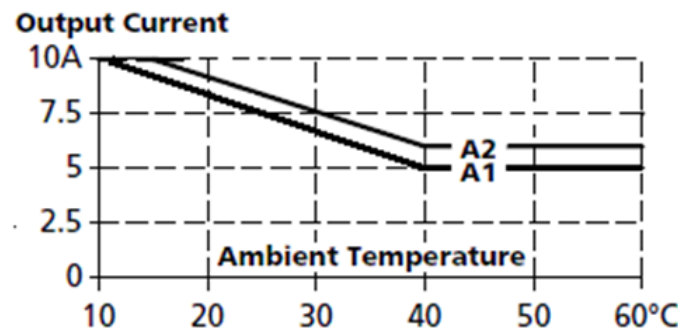
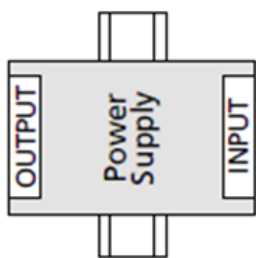
Mounting C



Mounting D

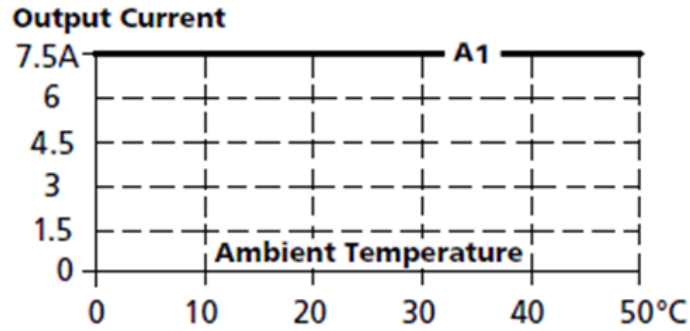
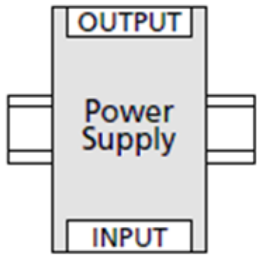


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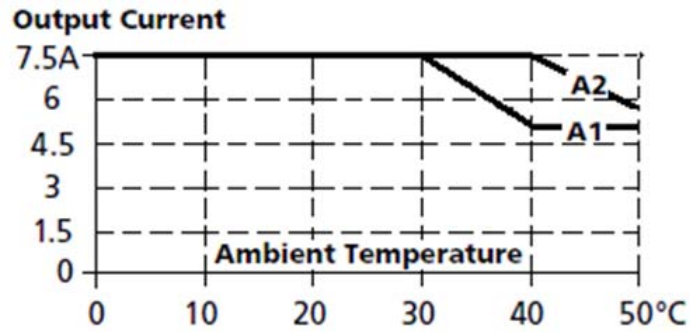
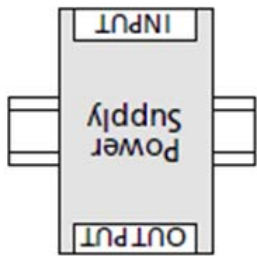


DG-360-48

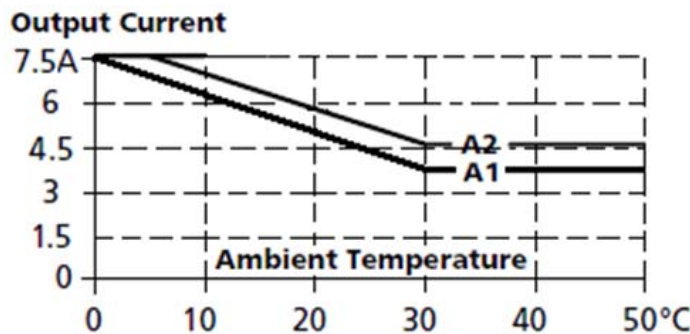
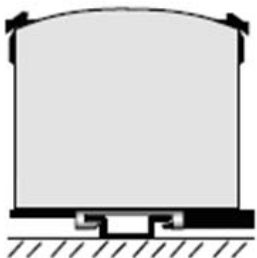
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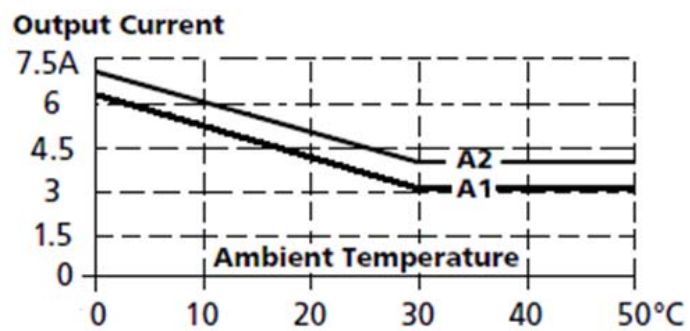
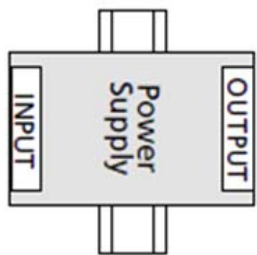
Mounting B



Mounting C



Mounting D



Mounting E

