

480Watts Single Output Industrial DIN Rail Power Supply IT-DIN-480 Series



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°C~70°C)
- > 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



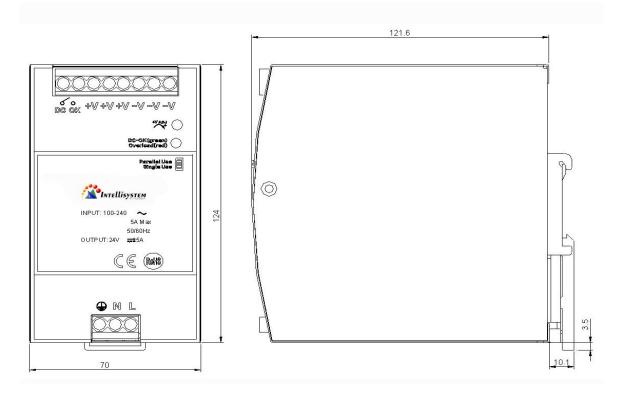
SPECIFICATION

MODEL			IT-DIN-480-24	IT-DIN-480-48
	DC Output		24V	48V
	Rated Current		6A	10A
	Current Range Note 1		0~20A 0~6A	0~10A
	Ripple and	0~70°C	≤240mV	≤480mV
	Noise Note 2	-25°C	≤480mV	≤480mV
OUTPUT	Voltage ADJ. Range		24~28V	48~56V
	Voltage Accuracy		±3.0%	
	Line Regulation		±0.5%	
	Load Regulation		±1.0%	
	Set-up Time		<pre><3\$@230Vac</pre>	
	Hold up Time		≥20mS(230Vac input, Full load)	
	Temperature Coefficient		±0.03%/°C	
	Overshoot and Undershoot		<5.0%	
	Voltage Range		85Vac~264Vac, 130Vdc-350Vdc	
	Frequency Range		47Hz~63Hz	
	Power Factor (typical)		0.99/110Vac 0.95/230Vac	
INPUT	Efficiency (Typical)		93.8%	93.8%
	AC Current (max.)		<6.0 A/100Vac <3.0A/230Vac	
	Inrush Current (Typical)		<20A/110Vac <40A/230Vac Cold start	
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA	
	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	
PROTECTION	Over voltage		28.8~33V, constant voltage, Auto recovery	58~63V, constant voltage, Auto recovery
	Over temperature		115±5°C, 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°C~70°C; 20%~90%RH No condensing	
	Storage Temp. & Hum.		-40°C~85°C; 5%~95%RH No condensing	
	Safety Standards		meet UL508, UL60950, EN60950	
SAFETY &EMC	Withstand Voltage		Primary-Secondary: 3.0KVac/10mA .Primary-PG: 2.5KVac/10mA. Secondary-PG: 0.5KVac/20mA. Output-DC OK: 0.5KVac/1mA	
Note 3	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°C, Full load)	
	Dimension (L*W*H)		70*124*127mm	
	Packing		10pcs/CTN, 13Kgs/CTN, 0.04cbm	
	Cooling method		Cooling by free air convection	
	Cooling Inculou		0 7	
dditional	Power boost		150% of rated current	



Mechanical Specification

Unit: mm



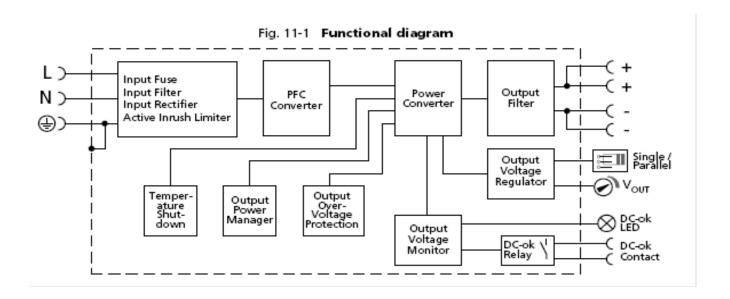
1.AC terminal blocks installation information					
Terminal No.	Function	Specs			
1	PG				
2	N	6.35mm, 3pin screw terminal blocks			
3	L				

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 blocks
Туре	Screw terminal blocks
Solid Wire	0.5-6mm ²
Strand Wire	0.5-4mm ²
Wire Spec	AWG20-10
Max Wire Diameter	2.8mm
Recommended stripping length	7mm
Screwdriver	3.5mm Straight or Cross Screwdriver
Recommended Torque	1NM

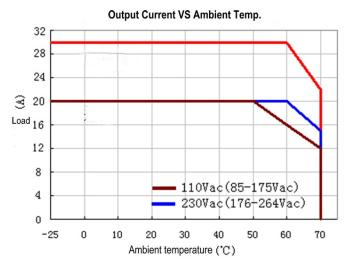


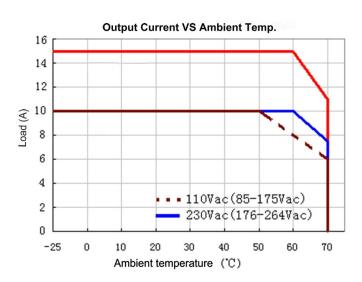
■ Block Diagram



Derating Curve

IT-DIN-480-24:





short time working,3S continuous working

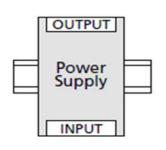


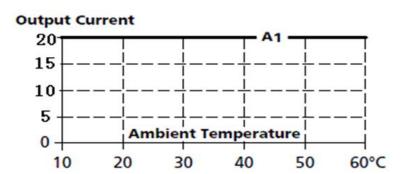
■ Mounting method instruction

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

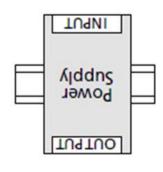
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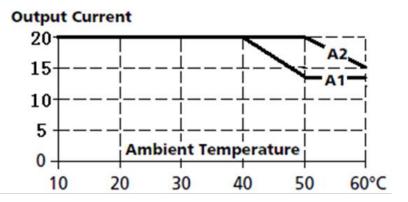
Mounting A:





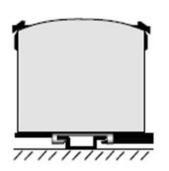
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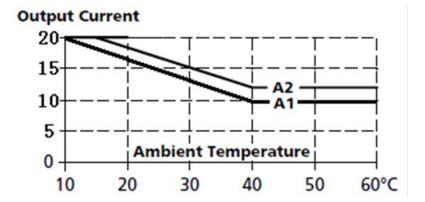




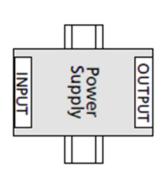


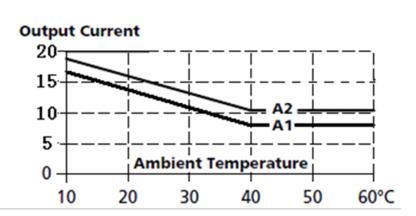
Mounting C:



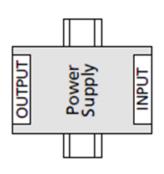


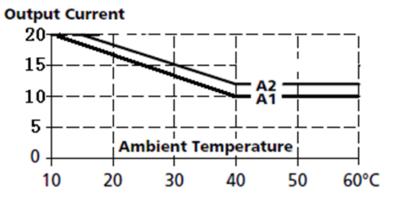
Mounting D:





Mounting E:

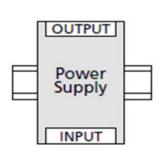


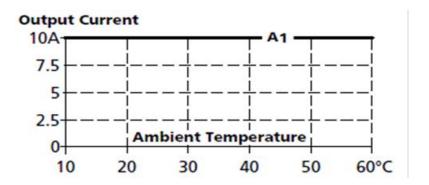




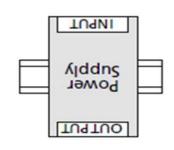
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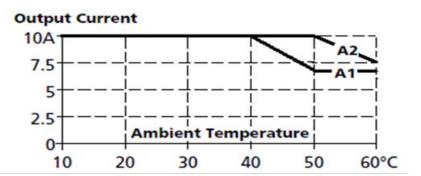
Mounting A:



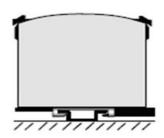


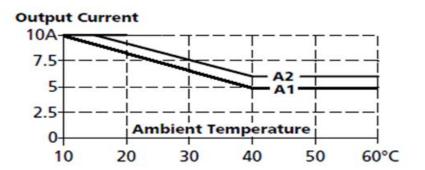
Mounting B





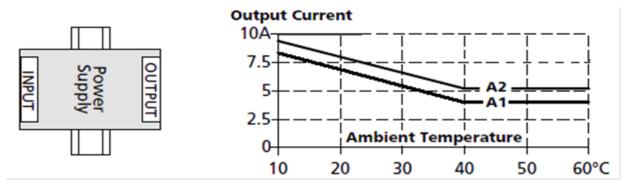
Mounting C



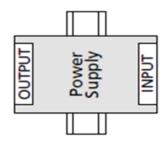


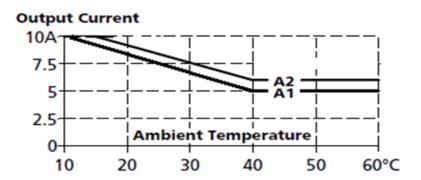


Mounting D



Mounting E





Disclaimer

All products, product specifications and data are subject to change without notice.