PSC	-240	<b>Series</b>

	Input: 85-264VAC 47/63Hz Output Voltage: 24 & 48 V DC Rated Power: 240W max.	Ultra Compact • Ultra Slim size • Conformal coated PCB • Parallel option available • Universal input • Three-year Warranty	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 Dutput protections: OVP/OLP/SCP/OTP Wide operating ambient temp (-25°C~70°C) 150% (360W) peak load capacity Easy Fuse Tripping due to High Overload Current Excellent Partial Load Efficiency Built-in DC OK relay contact Can be installed on 35 mm DIN rail 100% full load burn-in test PCB with conformal coating Suitable for critical applications Jitra-slim, 45mm width Three-year Warranty
CATALOG NUMBER		PSC-24024	PSC-24048
INPUT	Voltage Range Frequency Range Power Factor (typical) AC Current (max.) Inrush Current (Typical) Leakage Current Efficiency (Typical) @230Vac	85Vac~264Vac, 120Vdc-375Vdc 47Hz~63Hz 0.99/110Vac 0.95/230Vac <3.0 A/100Vac <1.5A/230Vac <20A/110Vac <40A/230Vac Cold start Input—output: ≤0.25mA Input—PG: ≤3.5mA 94%	93.8%
OUTPUT	DC Output Rated Current Current Range <i>Note 1</i> Ripple and Noise (0~70°C) <i>Note 2</i> (-25°C) Voltage ADJ. Range Voltage Accuracy Line Regulation Load Regulation Set-up Time Hold up Time Temperature Coefficient Overshoot Power boost Parallel function	24V 10A $0 \sim 10A$ $\leq 240mV$ $\leq 480mV$ $24 \sim 28V$ $\pm 3.0\%$ $\pm 0.5\%$ $\pm 1.0\%$ < 3S@230Vac $\geq 20mS(230Vac input, Full load)$ $\pm 0.03\%/°C$ < 5.0% 150% of rated current supported	48V 5A 0~5A ≤480mV ≤480mV 48~56V
ENVIRONMENTAL	Operating amb. Temp. & Hum. Storage Temp. & Hum.	-25°C~70°C; 20%~90%RH No condensing -40°C~85°C; 5%~95%RH No condensing	
PROTECTIONS	Overload Protection Over Voltage Protection Short Circuit Protection Over Current Protection	>130%-200% Rated Output Power Protection type: Hiccup Mode- recovers automatically a 110~145% Protection Type: Clamp by Zener diode Protection to Zero Voltage 110%-180%	fter fault condition is removed
SAFETY & EMC Note 3	Safety Standards Withstand Voltage Isolation Resistance EMC Emission Harmonic Current EMC Immunity	UL508; UL62368-1; UL60950-1; IEC62368-1, EN62368 Primary-Secondary:3.0KVac/10mA .Primary-PG:2.5KVa 10M ohms Compliance to EN55032 Class B Compliance to EN61000-3-2, Class A Compliance to EN61000-4-2,3,4,5,6,11;	
OTHER	MTBF (MIL-HDBK-217F) Dimension (L*W*H) Packing Cooling method	More than 300,000Hrs (25°, Full load) 45*124*119mm 24pcs/CTN, 21Kgs/CTN, 0.045cbm Cooling by free air convection	
NOTES	2. Measured at 20MHz of bandwidth by using a 3. The power supply is considered as a component	neasured at rated input, rated load and 25° of ambient tempe 12" twisted pair-wire terminated with a 0.1 uF & 10uF parall ent which will be installed into a final equipment. The final ec n how to perform these EMC tests, please refer to "EMI testi	el capacitor. Juipment must be re-confirmed

### **FEATURES**

Universal AC input range (85~264Vac)
Support 1+1 or N+1 redundant system

# **PSC-240 Series**

### **Mechanical Specification**

1.AC terminal blocks installation information

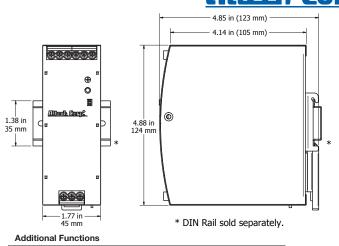
Terminal No.	Function	Wire Spec	Recommended
			Torque
1	PG		
2	N	20~10AWG	5Nm
3	L		

2.DC terminal blocks installation information

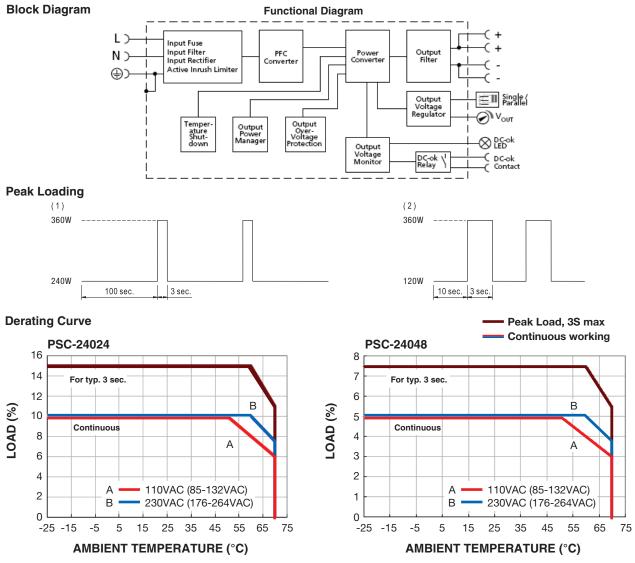
Terminal No.	Function	Wire Spec	Recommended
			Torque
4 & 5	DC OK Relay Contact		
6&7	+V	20~10AWG	5Nm
8&9	-V		

#### AC/DC Terminal

Туре	Screw terminal blocks
Solid Wire	0.5-6mm2
Strand Wire	0.5-4mm2
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	5NM



Additional Functions	
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



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# **PSC-240 Series**

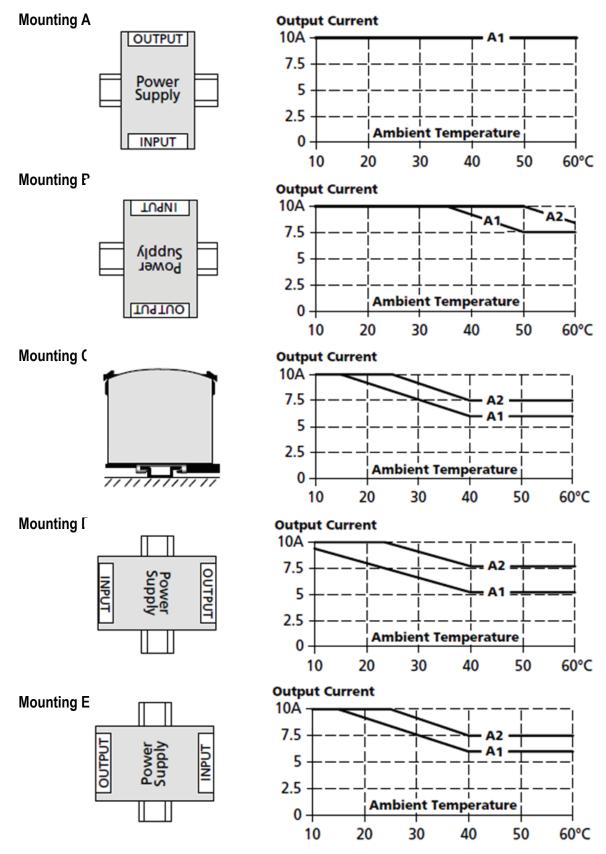


## Mounting method instruction PSC-24024

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.



# **PSC-240 Series**



## Mounting method instruction PSC-24048

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.

