

APS-480-24 Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



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480W DIN-Rail Switching Power Supply

APS-480-24

is an environment friendly power supply for standard DIN-rail mounting with feature of cost-effective and energy efficient. The products offer a high level of stability and immunity to noise, it also has an extremely compact design for space saving and are ideal for applications such as industrial control equipment machinery and all kinds of applications in harsh environment. With good EMC performance, the products compliant with international standards for EMC and safety specifications meet IEC/EN/UL62368, UL61010.











Features & Benefits

- Wide input voltage range: 85 ~ 264 VAC /120 ~ 370 VDC
- Accepts AC or DC input (dual-use of same terminal)
- Operating temperature: -40 °C to +70 °C
- The efficiency is up to 94.5%
- High I/O isolation test voltage up to 3000VAC
- DC OK function

- Active PFC, PF > 0.99
- Low ripple & noise
- Output short circuit, over-current, over-voltage,
- over-temperature protection, input undervoltage protection
- DIN rail TS-35/7.5/15 mountable
- Ultra slim design with 48mm width
- Safety according to IEC/EN/UL62368, UL61010, IS13252 (Part1)

Ordering Information

Part No.	Output power (W)	Nominal Output Voltage & Current (Vo/lo)	Adjustable Banga	Efficiency @230VAC (Typ.)	Max. Capacitive Load	Certification
APS-480-24	480	24 V/20 A	24 V-28 V	94%	20000 µF	EN/BIS

* The actual adjustment may exceed the listed values, care shall be taken to ensure the output voltage and power within the maximum value that listed above.

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Specifications —

Input Specifications							
Item	Operating conditio	n	Min.	Тур.	Max.		
	AC input		85 V	-	264 V		
Input Voltage Range	DC input		120 V	-	370 V		
Input Frequency			47 Hz	-	63 Hz		
Innut Current	115 VAC		-	-	5 A		
Input Current	230 VAC		-	-	2.5 A		
Inrush Current	115 VAC Cold start 230 VAC Cold start		-	-	15 A		
initiasii Gurrent			-	-	15 A		
Leakage Current	240 VAC		<0.8 mA				
Power Factor	115 VAC		0.99	-	-		
	230 VAC		0.99	-	-		
Hot Plug			Unavailable				
Output Specifications							
Item	Operating condition	on	Min.	Тур.	Max.		
Output Voltage Accuracy	Full load range		-	±1.0%			
Line Regulation	Rated load		-	±0.5%			
Load Regulation	0% - 100% load		-	±1.0%			
Output Ripple & Noise	20MHz bandwidth (peak-to-peak value)	-	-	50 mV		
Temperature Coefficient			-	±0.03%/°C	-		
Minimum Load			0%	-	-		
Hold-up Time			16 ms	20 ms	-		
DC OK Signal			30 VDC/1 A Max.				
Short Circuit Protection	Recovery time 10s disappear.	after the short circuit	Constant current hiccup mode, constant current works 1s, turn off 10s, continuous, self-recovery				
Over-voltage Protection	ge Protection 24 V		29 V -35 V (Hiccup, self-recovery)				
Over-current Protection	230VAC, rated load	Normal temperature high temperature	110% - 250% Io, the output turned off after working normally for 1s, self-recovery				
		Low temperature	≥105% Io, automatic recover after fault condition is removed				
Over-temperature	230VAC,100% load	Over-temperature protection start	-	-	90 ℃		
	200 W (0, 100 /0 10au	Over-temperature protection release	60 °C	-	-		
	Protection start (Inp from high to low)	out voltage drops	-	60 VAC	-		
Input Undervoltage Protection	Protection release (Input voltage rises from low to high)		-	75 VAC	-		

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Specifications —

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Item		Operating condition		Mii		Тур.		Max.	
Isolation	•	Electric strength test	t for 1min., leakage current		2000		-		-
	Input - output	<10 mA			3000 \ 500 \		-		-
	Output - Ground Input - Ground			100 1		-		-	
Insulation Resistanc	Input - output	@ 500VDC			100 1		-		-
e	Output - Ground	_			100				
Operating Temperature				-40		_		+70 ℃	
Storage Temperature					-40		_		+85 ℃
Operating Humidity					20%		_		90%RH
Storage Humidity		Non-condensing			10%	RH	-		95%RH
-	Frequency				-		-		-
Power Derating		Operating temperatu	ire derating	+50 ℃ to +70 ℃	2.5%	o/°C	-		-
		Input voltage derating		85 VAC-100 VAC	1.0%/	VAC	-		-
Safety Star	ndard	Design refer to IEC/I	EN/UL62368	3-1, UL61010-1	l, UL61010-	2-201, IS	313252	? (Part	1)
Safety Class					CLAS	SI			
MTBF		MIL-HDBK-217F@25°C			> 300	,000 h			
	al Specifications			(FC040)					
		Metal (AL1100, SPC	CC) and Plas	stic (PC940)					
Case Mater	rial								
Case Mater	rial	Metal (AL1100, SPC							
Case Mater Dimension Weight	rial s	Metal (AL1100, SPC 131.50 mm x 48.00							
Case Mater Dimension Weight Cooling me	rial s	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection							
Case Mater Dimension Weight Cooling me	rial s ethod	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection		0 mm	CLASS B				
Case Mater Dimension Weight Cooling me Electroma	rial s ethod ignetic Compatil	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection	mm x 125.0	0 mm	CLASS B CLASS B				
Case Mater Dimension Weight Cooling me Electroma	rial s ethod gnetic Compatil CE	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection bility (EMC)	mm x 125.0 CISPR32/E	0 mm EN55032 EN55032		and CLAS	SS D		
Case Mater Dimension Weight Cooling me Electroma	rial s ethod gnetic Compati CE RE	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection bility (EMC)	mm x 125.0 CISPR32/E CISPR32/E	0 mm EN55032 EN55032 000-3-2	CLASS B	and CLAS ±8KV/	SS D Air	Perf.	Criteria
Case Mater Dimension Weight Cooling me Electroma	rial s ethod gnetic Compatil CE RE Harmonic curr	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection bility (EMC)	mm x 125.0 CISPR32/E CISPR32/E IEC/EN 61	0 mm EN55032 EN55032 000-3-2 000-4-2	CLASS B CLASS A a Contact				
Case Mater Dimension Weight Cooling me Electroma	rial s ethod Ignetic Compatil CE RE Harmonic curr ESD	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection bility (EMC)	mm x 125.0 CISPR32/E CISPR32/E IEC/EN 61 IEC/EN 61	0 mm EN55032 EN55032 000-3-2 000-4-2 000-4-3	CLASS B CLASS A a Contact ±15KV			perf.	Criteria / Criteria /
Case Mater Dimension Weight Cooling me Electroma	rial s ethod Ignetic Compatil CE RE Harmonic curr ESD RS	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection bility (EMC)	mm x 125.0 CISPR32/E CISPR32/E IEC/EN 61 IEC/EN 61 IEC/EN 61	0 mm EN55032 EN55032 000-3-2 000-4-2 000-4-3 000-4-4	CLASS B CLASS A a Contact ±15KV 10V/m	±8KV/	Air	perf. perf.	Criteria /
Case Mater Dimension Weight Cooling me Electroma	rial s ethod gnetic Compati CE RE Harmonic curr ESD RS EFT	Metal (AL1100, SPC 131.50 mm x 48.00 980 g (Typ.) Free air convection bility (EMC)	mm x 125.0 CISPR32/E CISPR32/E IEC/EN 61 IEC/EN 61 IEC/EN 61	0 mm EN55032 EN55032 000-3-2 000-4-2 000-4-3 000-4-4 000-4-5	CLASS B CLASS A a Contact ±15KV 10V/m ±4KV line to line	±8KV/	Air	perf. perf. perf.	Criteria / Criteria /

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