

APS-240-48 Datasheet

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



AVCOMM Technologies, Inc

www.avcomm.us

Email: info@avcomm.us

Phone: (713) 933-4534

Address: 333 West Loop North, Suite 460 Houston, TX 77024 United States



240W DIN-Rail Switching Power Supply

APS-240-48

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, UL508.











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
- High efficiency, high reliability
- Active PFC

- 150% peak load output for 3 seconds
- DC ON output status indicator LED
- Output short circuit, over-current, over-voltage, over-temperature protection
- Safety according to IEC/EN/UL62368, UL61010

Ordering Information

Part No.	Output power (W)	Nominal Output Voltage & Current (Vo/lo)	Adjustable Dange	Efficiency @230VAC (Typ.)	Max. Capacitive Load	Certification
APS-240-48	240	48 V/5 A	48.0 V-53.0 V	94%	10000 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 condition	on	Min.	Тур.	Max.			
	Rated input (Certifie	ed voltage)	100 V	-	240 V			
Input Voltage Range	AC input		85 V	-	264 V			
	DC input	120 V	-	370 V				
Input Frequency			47 Hz	-	63 Hz			
lanut Current	115 VAC		-	-	3 A			
Input Current	230 VAC		-	-	1.5 A			
lamat Ourset	115 VAC			15 A				
Inrush Current	230 VAC	Cold start	-	30 A				
Laskana Ourrant	2011/10	Input - output	<0.5 mA					
Leakage Current	264 VAC	Output - Ground	<1 mA					
D Factor	115 VAC		-	0.98	-			
Power Factor	230 VAC		-	0.95	-			
Hot Plug	lot Plug			Unavailable				
Output Specifications								
Item	Operating condition	Operating condition		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)	-	75 mV	100 mV			
Hold-up Time				20 ms	-			
Short Circuit Protection	Recovery time < 10 circuit disappear.	Recovery time < 10 s after the short circuit disappear.		Constant current, continuous, self-recovery				
Over-voltage Protection	48 V		≤60 V (Hiccup, self-recovery)					
Over-current Protection	230VAC, rated load	Normal temperature high temperature	110% - 200% Io, self-recovery					
		Low temperature	≥105% lo, self-recovery					
Over-temperature	230VAC, rated load	I	-	80 ℃	-			

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Specifications _____

General S	pecifications							
	Item		Operating con	dition	Min.	Тур.	Max.	
	Input - Ground				2000 VAC	-	-	
Isolation	Input - output	Electric stre	ngth test for 1min	., leakage current	3000 VAC	-	-	
	Output - Ground				500 VAC	-	-	
	Input - Ground				50 MΩ	-	-	
	Input - output	@ 500VDC			50 MΩ	-	-	
e	Output - Ground				50 MΩ	-	-	
Operating	Temperature				-40 °C	-	+70 °C	
Storage Temperature					-40 °C	-	+85 °C	
Operating Humidity		Non-condensing			-	-	90%RH	
Storage Humidity					-	-	95%RH	
Switching Frequency					-	100 kH	z -	
Power Derating		Operating	-40 ℃ to -25 ℃		3.34%/°C	-	-	
		temperatur e	+40 ℃ to +70℃ +50 ℃ to	TT5 VAC	1.67%/°C	-	-	
		derating	+50 °C to +70°C	230 VAC	2.5%/°C	-	-	
			e derating	85 VAC-100 VAC	, 1.33%/VA C	-	-	
Safety Star	ndard			ved & EN62368-1 (F -1, UL508, UL61010				
Safety Class					CLASS I			
MTBF		MIL-HDBK-217F@25°C			> 300,000 h			
Mechanica	al Specifications							
Case Material		Metal (AL1100, SPCC) and Plastic (PC945)						
Dimensions		124.00 mm x 54.00 mm x 110.00 mm						
Weight		600 g (Typ.)						
Cooling me	thod	Free air convection						
Electroma	ignetic Compati	bility (EMC)						
Emissions	CE	CE		SPR32/EN55032	CLASS B			
	RE	RE		SPR32/EN55032	CLASS B			
	Harmonic current		IE	C/EN 61000-3-2	CLASS A and CLASS D			
Immunity	ESD	ESD		C/EN 61000-4-2	Contact \pm 6KV/ Air Perf. Criteria \pm 8KV			
	RS	RS		C/EN 61000-4-3	10V/m perf. Criter		perf. Criteria A	
	EFT	EFT		C/EN 61000-4-4	±2KV perf. Criter		perf. Criteria A	
	Surge	Surge		C/EN 61000-4-5	line to line $\pm 2KV$ /line perf. Criteria to ground $\pm 4KV$		perf. Criteria A	
	CS	CS		C/EN 61000-4-6	10Vr.m.s perf. Crit		perf. Criteria A	
		Voltage dips, short interruptions and voltage variations immunity			0%, 70%		perf. Criteria B	

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