

APS-120-24 Datasheet

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



AVCOMM Technologies, Inc

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120W DIN-Rail Switching Power Supply

APS-120-24

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 international standards for EMC and compliant with 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
- High efficiency up to 94%, high reliability
- DC OK function
- 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
- · Operating altitude up to 5000m
- Over Voltage Class Ⅱ
- Indoor use

Ordering Information

Part No.	Output power (W)	Nominal Output Voltage & Current (Vo/lo)	Adjustable Papers	Efficiency @230VAC (Typ.)	Max. Capacitive Load	Certification
APS-120-24	120	24 V/5 A	23.5 V-28 V	94%	50000 µF	UL/EN

* 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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APS-120-24



Specifications —

Input Specifications					F			
Item	Operating condition		Min.	Тур.	Max.			
	Rated input (Certified voltage)			100 V	-	240 V		
Input Voltage Range	AC input		85 V	-	264 V			
	DC input			120 V	-	370 V		
Input Frequency	Rated AC input			50 Hz	-	60 Hz		
input Frequency	AC input			47 Hz	-	63 Hz		
	Rated input					1.5 A		
Input Current	115 VAC			-	-	1.5 A		
	230 VAC			-	-	0.75 A		
Inrush Current	115 VAC Cold start			-	15 A			
	230 VAC	Cold Start		-	30 A			
Leakage Current	240 VAC	240 VAC			<1 mA			
Power Factor	115 VAC			-	0.98	-		
Power Factor	230 VAC			-	0.94	-		
Start-up Delay Time	230 VAC			-	300 ms	1000 ms		
Hot Plug				Unavailable				
Output Specifications								
Item	Operating condition	Operating condition		Min.	Тур.	Max.		
Output Voltage Accuracy	Full load range	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)	24 V		-	-	100 mV		
Stand-by Power Consumption				-	2 W	-		
Hold-up Time				-	20 ms	-		
DC OK Signal	Resistive load		30VDC/1A Max.					
Short Circuit Protection	Recovery time < 3s after the short circuit disappear.			Constant current, continuous, self-recovery				
Over-voltage Protection	24 V			≤35 V (Hiccup, self-recovery after the abnormality is removed)				
Over-current Protection	230VAC, rated load Normal temperature			105% - 200% lo, self-recovery				
		Low tempera	ture	≥105% full load after derating, self-recovery				
	230VAC, 70% load	Over-temper protection st		-	90 ℃	-		
Over-temperature								

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Specifications —

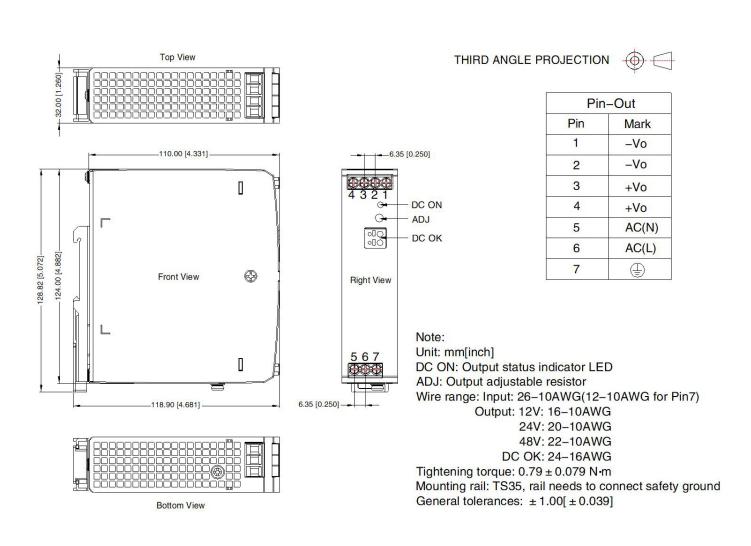
General S	pecifications						_		
	Item		Operating cor	ndition	Min.	Тур.	Max.		
Input - Ground					1500 VAC	-	-		
Isolation	Input - output	Electric streng	gth test for 1min.,	3000 VAC	-	-			
	Output - Ground			500 VAC	-	-			
Insulation Resistance	Input - Ground			50 MΩ	-	-			
	Input - output	@ 500VDC		50 ΜΩ	-	-			
	Output - Ground			50 ΜΩ	-	-			
Operating Temperature					-40 ℃	-	+70 °C		
Storage Ten	nperature				-40 ℃	-	+85 ℃		
Operating Humidity		Non-condens	Non-condensing			-	95%RH		
Storage Humidity						-	95%RH		
Switching Frequency					-	100 kHz	-		
Power Derating		Operating	-40 °C to -25 °C		3.34%/°C	-	-		
		temperature derating	+55 °C to +70°C	85 VAC-164 VAC	2.0%/°C	-	-		
			+60 °C to +70°C	165 VAC-264 VAC	3.0%/°C	-	-		
		Input voltage	-	85 VAC-100 VAC	0.67%/VAC	-	-		
Safety Stand	dard			fety approved & EN623 8-1, UL61010-1, UL61					
Safety Class	3			CLASS I					
MTBF		MIL-HDBK-217F@25°C			> 300,000 h				
Mechanical Specifications Case Material		Metal (AL5052, SPCC, SGCC) and Plastic (PA66)							
Dimensions		110.00 mm x 32.00 mm x 124.00 mm							
Weight		490 g±10% (Typ.)							
Cooling method		Free air convection							
Electroma	agnetic Compati	ibility (EMC)							
	CE			ISPR32/EN55032	CLASS B				
Emissions	RE		С	ISPR32/EN55032	CLASS B				
LIIII33I0II3	Harmonic current			EC/EN 61000-3-2	CLASS A and CLASS D				
Linissions	Harmonic curre	// IL			Contact ±6KV/ Air ±8KV Perf. Criteria				
	ESD			EC/EN 61000-4-2	Contact ±6KV/ Ai	r±8KV Per	f. Criteria A		
			IE	EC/EN 61000-4-2 EC/EN 61000-4-3	Contact ±6KV/ Air		f. Criteria A . Criteria A		
	ESD		IE			perf			
Immunity	ESD RS		IE IE	C/EN 61000-4-3	10V/m	perf perf	. Criteria A		
	ESD RS EFT		IE IE IE	EC/EN 61000-4-3 EC/EN 61000-4-4	10V/m ±2KV line to line ±2KV	perf perf /line to perf	. Criteria A . Criteria A		

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