

APS-240-24 Datasheet

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



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United States



240W DIN-Rail Switching Power Supply

APS-240-24

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, UL508.







CB Report





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/Io)	Output Voltage Adjustable Range ADJ*	Efficiency @230VAC (Typ.)	Max. Capacitive Load	Certification
APS-240-24	240	24 V/10 A	24.0 V-28.0 V	94%	40000 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						
ltem	Operating condition	Operating condition		Тур.	Max.	
	Rated input (Certified	Rated input (Certified voltage)		-	240 V	
nput Voltage Range	AC input		85 V	-	264 V	
	DC input		120 V	-	370 V	
Input Frequency			47 Hz	-	63 Hz	
I	115 VAC	115 VAC		-	3 A	
Input Current	230 VAC		-	-	1.5 A	
	115 VAC	Out that	-	15 A	-	
Inrush Current	230 VAC	Cold start	-	30 A	-	
Landania Orimania	204.1/4.0	Input - output	<0.5 mA			
Leakage Current	264 VAC	264 VAC Output - Ground		<1 mA		
	115 VAC	115 VAC		0.98	-	
Power Factor	230 VAC	230 VAC		0.95	-	
Hot Plug			Unavailable			
Output Specifications						
Item	Operating condition		Min.	Тур.	Max.	
Output Voltage Accuracy	Full load range		-	±1.0%		
Line Regulation	Rated load		-	±0.5%		
Load Regulation	0% - 100% load	0% - 100% load		±1.0%		
Output Ripple & Noise	20MHz bandwidth (pe	eak-to-peak value)	-	75 mV	100 mV	
Hold-up Time			- 20 ms		-	
Short Circuit Protection	uit Protection Recovery time < 10 s after the short circuit disappear.		Constant current, continuous, self-recovery			
Over-voltage Protection	24 V	24 V		≤35 V (Hiccup, self-recovery)		
Over current Protection	220)/AC retail lead	Normal temperature high temperature		110% - 200% lo, self-recovery		
Over-current Protection	230VAC, rated load		≥105% lo, self-recovery			
Over-current Protection	230VAC, rated load	Low temperature	≥105% lo, self-re	ecovery		

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Specifications —

General S	pecifications						
Item		Operating condition			Min.	Тур.	Max.
	Input - Ground				2000 VAC	-	-
Isolation	Input - output	Electric strength test for 1min., leakage current <10 mA			3000 VAC	-	-
	Output - Ground				500 VAC	-	-
	Input - Ground				50 MΩ	-	-
Insulation Resistance	Input - output	@ 500VDC			50 MΩ	-	-
resolution	Output - Ground			50 MΩ	-	-	
Operating T	emperature			-40 ℃	-	+70 °C	
Storage Temperature				-40 ℃	-	+85 °C	
Operating Humidity		Non-condensing		-	-	90%RH	
Storage Humidity				-	-	95%RH	
Switching F	requency				-	100 kHz	-
		Operating	-40 ℃ to -25 ℃		3.34%/℃	-	-
D D	O	temperature	+40 °C to +70°C	115 VAC	1.67%/°C	-	-
Power Derating		derating	+50 °C to +70°C	230 VAC	2.5%/°C	-	-
		Input voltage	derating	85 VAC-100 VAC	1.33%/VAC	-	-
Safety Standard		,	t1) safety approved to IEC/UL62368-1, l	& EN62368-1 (Report) JL508, UL61010-1			
Safety Class	<u> </u>				CLASS I		
MTBF		MIL-HDBK-21	17F@25℃	> 300,000 h			

mechanical Specifications	

Cooling method	Free air convection
Weight	600 g (Typ.)
Dimensions	124.00 mm x 54.00 mm x 110.00 mm
Case Material	Metal (AL1100, SPCC) and Plastic (PC945)

Electromagne	tic Compatibility	y (EMC)
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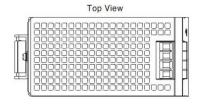
	CE	CISPR32/EN55032	CLASS B	
Emissions	RE	CISPR32/EN55032	CLASS B	
	Harmonic current	IEC/EN 61000-3-2	CLASS A and CLASS D	
	ESD	IEC/EN 61000-4-2	Contact ±6KV/ Air ±8KV	Perf. Criteria A
	RS	IEC/EN 61000-4-3	10V/m	perf. Criteria A
	EFT	IEC/EN 61000-4-4	±2KV	perf. Criteria A
Immunity	Surge	IEC/EN 61000-4-5	line to line ±2KV/line to ground ±4KV	perf. Criteria A
	cs	IEC/EN 61000-4-6	10Vr.m.s	perf. Criteria A
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN 61000-4-11	0%, 70%	perf. Criteria B

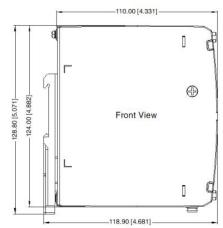
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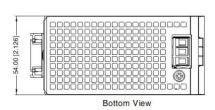




Installation dimensions







THIRD ANGLE PROJECTION





7	Pin-Out	
	Pin	Mark
	1	-Vo
1	2	-Vo
	3	+Vo
	4	+Vo
	5	AC(N)
	6	AC(L)
	7	-

Note:

Unit: mm[inch]

ADJ: Output adjustable resistor

6.35 [0.250]

-6.35 [0.250]

— LED — ADJ

4321

Right View

567

Wire range: 26-10 AWG

Tightening torque: Max 0.4 N-m

Mounting rail: TS35, rail needs to connect safety ground

General tolerances: $\pm 1.00[\pm 0.039]$