

# APS-72-24 Datasheet

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



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### 72W DIN-Rail Switching Power Supply

### **APS-72-24**

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 UL61010 and EN62368.







**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 I/O isolation test voltage up to 4000 VAC
- · Industrial product technology design

- · Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- DIN rail TS-35/7.5/15 mountable
- Suitable for small chassis and narrow space installation
- Safety according to UL61010, EN62368



### **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-72-24	72	24 V/3 A	24 V-28 V	89%	1500 µF	UL/EN/IEC

<sup>\*</sup> 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 -

Item	Operating condition	Operating condition		Тур.	Max.	
	AC input	AC input		-	264 V	
Input Voltage Range	DC input		120 V	-	370 V	
Input Frequency			47 Hz	-	63 Hz	
	115 VAC		-	-	2 A	
Input Current	230 VAC	230 VAC		-	1 A	
lament Occurrent	115 VAC	115 VAC		25 A		
Inrush Current	230 VAC		-	45 A		
Leakage Current	240 VAC	240 VAC		<0.5 mA		
Hot Plug			Unavailable	Unavailable		
Output Specifications						
ltem	Operating condition	Operating condition		Тур.	Max.	
Output Voltage Accuracy	Full load range	Full load range		±1.0%		
Line Regulation	Rated load	Rated load		±0.5%		
Load Regulation	0% - 100% load	0% - 100% load		±1.0%		
Output Ripple & Noise	20MHz bandwidth (peak-to-peak value)	24 V	-	-	120 mV	
Temperature Coefficient				±0.03%/°C		
Minimum Load		0%	-	-		
Short Circuit Protection	Recovery time < 3s after disappear.	Recovery time < 3s after the short circuit disappear.		Constant current, continuous, self-recovery		
	24\/	24V		≤33V (Output voltage turn off, re-power on for recover)		
Over-voltage Protection	277		recover)			

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Low temperature, high temperature

≥105%lo, constant current mode, automatic

Output voltage turn off, re-power on for recover

recover after fault condition is removed

after the temperature drops.

12ms

60ms

115 VAC

230 VAC

Over-temperature

**Hold-up Time** 





### Specifications —

	pecifications					
	Item	Operating	condition	Min.	Тур.	Max.
	Input - Ground			2000 VAC	-	-
Isolation	Input - output	Electric strength test for current <10mA	or 1min., leakage	4000 VAC	-	-
	Output - Ground			500 VAC	-	-
	Input - Ground			50 MΩ	-	-
Insulation Resistance	Input - output	@ 500 VDC		50 MΩ	-	-
	Output - Ground			50 MΩ	-	-
Operating Temperature				-30 °C	-	+70 ℃
Storage Temperature				-40 ℃	-	+85 ℃
Operating Humidity		Non-condensing		20%RH	-	90%RH
Storage Humidity				10%RH	-	95%RH
Switching Frequency					65 kHz	
		Operating	-30 °C to -10 °C	2.0%/℃		
Power Derat	ting	temperature derating	+45 °C to +70 °C	2.0%/℃		
•		Input voltage derating	90 VAC ~ 100 VAC	2.0%/VAC	-	
Safety Standard				IS13252 (Part1) safety approved & EN62368-1 (Report) Design refer to UL61010-1		
Safety Class			CLASS I			
MTBF		MIL-HDBK-217F@25°C		> 300,000 h		

Mec	hani	cal:	Sn	ecit	ficat	tions
IVICC	IIGIII	cai .	υp	COI	IICai	

Case Material	Metal (AL1100, SGCC)		
Package Dimensions	32.00 mm x 125.00 mm x 87.50 mm		
Weight	350 g (Typ.)		
Cooling method	Free air convection		

#### **Electromagnetic Compatibility (EMC)**

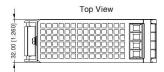
Emissions	CE	CISPR32/EN55032	CLASS B	
	RE	CISPR32/EN55032	CLASS B	
	THD	IEC/EN 61000-3-2	CLASS A	
	ESD	IEC/EN 61000-4-2	Contact ±6KV/ Air ±8KV	Perf. Criteria A
Immunity	RS	IEC/EN 61000-4-3	10V/m	perf. Criteria A
	EFT	IEC/EN 61000-4-4	±2KV	perf. Criteria A
	Surge	IEC/EN 61000-4-5	line to line ±2KV/line 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

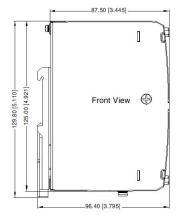
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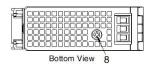


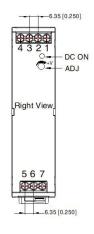


### **Installation dimensions**









### THIRD ANGLE PROJECTION (6)



Pin-Out				
Pin	Mark			
1	-Vo			
2	–Vo			
3	+Vo			
4	+Vo			
5	AC(N)			
6	AC(L)			
7	<b>(1)</b>			

7、8 any position must be connected to the earth ( $\stackrel{\frown}{=}$ )

Note:

Unit: mm[inch]

ADJ: Output adjustable resistor Wire range: 26-10 AWG Tightening torque: Max 0.4 N·m

Mounting rail: TS35, rail needs to connect safety ground

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