

APS-30-24 Datasheet

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



AVCOMM Technologies, Inc

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APS-30-24



30W DIN-Rail Switching Power Supply

APS-30-24

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, compliant with international IEC62368 standards for EMC and safety specifications meet IEC/EN61000-4, CISPR32, EN55032, UL62368, IEC62368 and EN62368. These lightweight power supply also have 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.













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 4000VAC
- · Industrial product technology design

- · Over-voltage class III (Designed to meet EN61558-1 safety standards)
- Low standby power consumption, high efficiency
- · Low ripple & noise
- · Output short circuit, over-current, over-voltage protection
- Withstand 300VAC surge input for 5s
- DIN rail TS35X7.5/ TS35X15 mountable

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-30-24	36	24 V/1.5 A	21. 6 V-29.0 V	88%	1400 µF	UL/EN/IEC

* 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 —

ltem	Operatingcondition		Min.	Typ	Max.	
				Тур.		
nput Voltage Range	AC input		85 V	-	264 V	
	DC input		120 V	-	370 V	
nput Frequency			47 Hz	-	63 Hz	
nput Current	115VAC		-	-	0.9 A	
-	230VAC	-	-	0.5 A		
nrush Current	115VAC		-	25 A		
	230VAC		-	45 A		
_eakage Current	264VAC		0.25 mA RMS n	0.25 mA RMS max.		
Hot Plug			Unavailable	Unavailable		
Output Specifications						
Item	Operatingcondition		Min.	Тур.	Max.	
Output Voltage Accuracy	0% - 100%load		-	±2%		
Line Regulation	Rated load		-	±0.5%		
Load Regulation	230VAC		-	±1.5%		
	20MHz bandwidth (peak-to-peakvalue)	5V	-	-	80 mV	
		12V	-	-	120 mV	
Output Ripple & Noise		15V	-	-	120 mV	
		24V	-	-	150 mV	
		48V	-	-	240 mV	
Tem perature Coefficient				±0.02%/°C		
Short Circuit Protection			Hiccup, continuous, self-recovery			
Over-current Protection			≥120 % lo, self-recovery			
	5V output		≤7.5V Output voltage clamp or hiccup			
	12V output		≤16V Output voltage clamp or hiccup			
Over-voltage Protection	15V output		≤20V Output voltage clamp or hiccup			
	24V output		≤36V Output voltage clamp or hiccup			
	48V output		≤60V Output voltage clamp or hiccup			
Minim um Load			0%	-	-	
Start-up Time			-	-	3 s	
Hold un Timo	115VAC		-	12ms	-	
Hold-up Time	230VAC		_	60ms	_	

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Specifications —

General S	Specifications							
	ltem	Operatingcor	dition	Min.	Тур.	Max.		
solation	Input - output	Electric Strength Test for 1m current < 5 mA)	in. (leakage	4000 VAC	-	-		
Operating Temperature			-40 °C	-	+70 °C			
Storage Temperature			-40 °C	-	+85 °C			
Storage Humidity					-	95%RH		
Operating Altitude				-	-	2000 m		
Sw itching F	requency			-	65 kHz	-		
Power Derating		-40 °C to -30 °C 1.	5V/48V output	3.0%/°C	-	-		
			12V/15V output	7.0%/°C	-	-		
			24V output	5.0%/°C	-	-		
		+50 °C to +70 °C		2.5%/°C	-	-		
		85 VAC- 100 VAC		1.0%/VAC	-	-		
Safety Standard				UL/IEC62368-1, IS13252 (Part1) safety approved &EN62368-1, BS EN 62368-1 (Report); Design refer to EN61558-1				
Safety Class				CLASS II				
MTBF MIL-HDBK-217F@25°C			> 300,000 h					
Mechanic	al Specificati	ons						
Case Material		Plastic, heat-resistant (UL94V-0)						
Package Dimensions		92.66 mm x 35.00 mm x 58.00 mm						
Weight		115 g (Тур.)						
Cooling method Free ai		Free air convection	ee air convection					
Electroma	agnetic Comp	atibility (EMC)						
	CE	CE		5032 CLASS	В			
Emissions	RE		CISPR32/EN55	5032 CLASS	CLASS B			
Im m unity	ESD	ESD)-4-2 Contact	4-2 Contact ±6KV/Air ±8KV			
	RS	RS		-4-3 10V/m		perf. Criteria A		
	EFT	ET		-4-4 ±2KV		perf. Criteria A		
	Surge	Surge		-4-5 line to line ±2KV		perf. Criteria A		
	CS	CS		0-4-6 10Vr.m.s		perf. Criteria A		
		Voltage dips, short interruptions and voltage variations immunity						

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10 A 1





Pin-Out		
Pin	APS-30-24	
1	AC(N)	
2	AC(L)	
3	-Vo	
4	+Vo	

Note: Unit: mm[inch] ADJ: adjustable resistance to change output voltage Wire range: 24-12 AWG Tightening torque: Max 0.4 N·m Mounting rail: TS35 General tolerances: ±1.00[±0.039]

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