



APS-60-5

Datasheet

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



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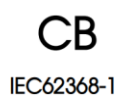
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AC/DC DIN-Rail Power Supply

APS-60-5

APS-60-5 is an environment friendly power supply for standard DIN-rail mounting with feature of cost-effective and energy efficient. The product is safe and reliable, with good EMC performance, and the EMC and safety specifications meet the international standards IEC/EN61000-4, CISPR32/EN55032, UL62368, EN62368, and IEC62368. The 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
- Meet EN61558 standards
- Over-voltage class III (Designed to meet EN61558-1 safety standards)
- Low standby power consumption, high efficiency
- Low ripple & noise
- Protection: output short circuit, over-current, over-voltage
- 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-60-5	32.5	5V/6.5A	4.9-5.5	84	20000	UL/EN/IEC/ BIS/ UKCA

* 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.

Specifications

Input					
Item	Operating condition	Min.	Typ.	Max.	Unit
Input Voltage Range	AC input	85	-	264	VAC
	DC input	120	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	1.2	A
	230VAC	-	-	0.8	
Inrush Current	115VAC	-	30	-	
	230VAC	-	60	-	
Leakage Current	264VAC	0.25mA RMS max.			
Hot Plug		Unavailable			

Output						
Item	Operating condition	Min.	Typ.	Max.	Unit	
Output Voltage Accuracy	0% - 100%load	-	±2	-	%	
Line Regulation	Rated load	-	±0.5	-		
Load Regulation	230VAC	-	±1.5	-		
Ripple & Noise	20MHz bandwidth (peak-to-peak value)	5V input	--	--	100	mV
Temperature Coefficient		--	±0.02	-	%/°C	
Standby power consumption	230VAC input	5V output	--	--	0.3	W
Short Circuit Protection		Hiccup, continuous, self-recovery				
Over-current Protection		≥120% I _o , self-recovery				
Over-voltage Protection	5V output	≤7.5V	Output voltage clamp or hiccup			
Minimum Load		0	--	--	%	
Start-up Time		--	--	3	s	
Hold-up Time	115VAC	--	15	--	ms	
	230VAC	--	80	--		

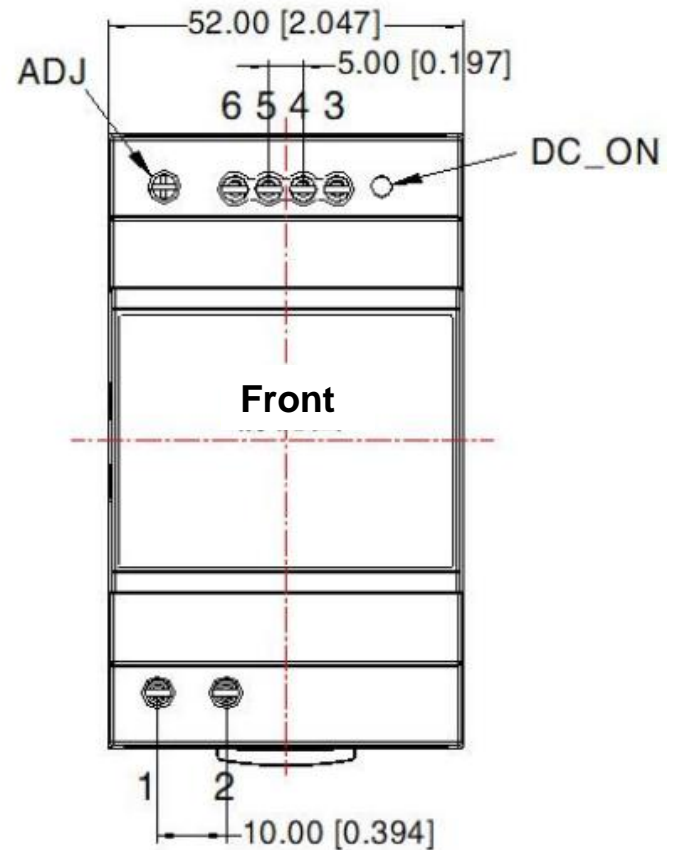
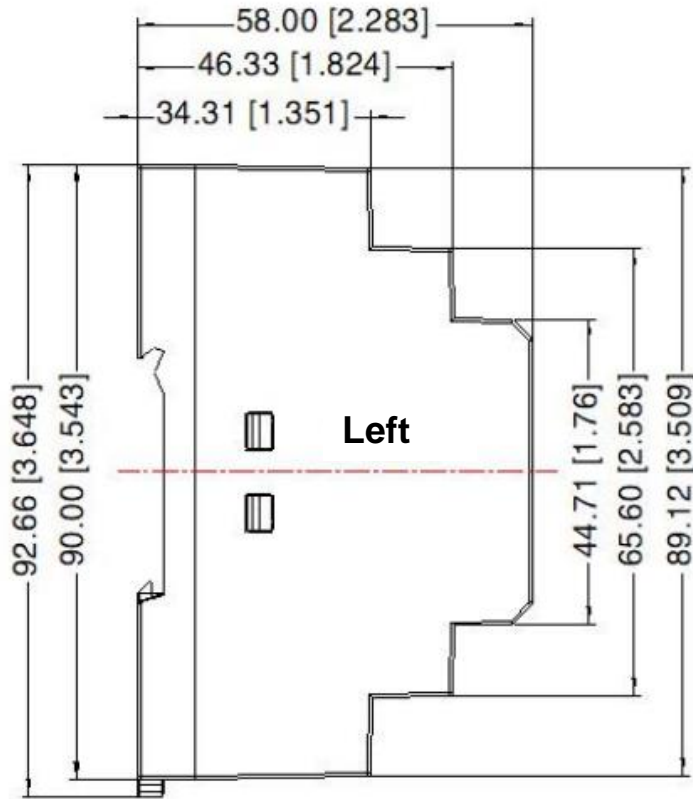
General Specifications						
Item	Operating condition	Min.	Typ.	Max.	Unit	
Isolation	Input - output	Electric Strength Test for 1min. (leakage current < 5 mA)		4000	--	VAC
Operating Temperature		-40	--	+70	°C	
Storage Temperature		-40	--	+85		
Storage Humidity		--	--	95	%RH	
Operating Altitude		--	--	2000	m	
Switching Frequency		--	65	--	kHz	

Specifications

Power Derating	-40°C to -30°C	5V output	3.0	--	--	%°C
	+45°C to +70°C		2.0	--	--	
	85VAC - 100VAC		1.0	--	--	%VAC
Safety Standard			UL/IEC62368-1, IS13252 (Part1) & EN62368-1, BS EN 62368-1; EN61558-1			
Safety Class			CLASS II			
MTBF	MIL-HDBK-217F@25°C		> 300,000 h			
Mechanical						
Material	Plastic, heat-resistant (UL94V-0)					
Dimensions	92.66 x 52.00 x 58.00 mm					
Weight	175g (Typ.)					
Cooling method	Natural air cooling					
EMC						
EMI	CE	CISPR32/EN55032	CLASS B			
	RE	CISPR32/EN55032	CLASS B			
EMS	ESD	IEC/EN61000-4-2	Contact ±6KV/Air ±8KV		Perf. Criteria A	
	RS	IEC/EN61000-4-3	10V/m		Perf. Criteria A	
	EFT	IEC/EN61000-4-4	±2KV		Perf. Criteria A	
	Surge	IEC/EN61000-4-5	Line to line ±2KV		Perf. Criteria A	
	CS	IEC/EN61000-4-6	10Vr.m.s		Perf. Criteria A	
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11	100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods		Perf. Criteria A	

Installation dimensions

Unit: mm



Pin	Function
1	AC(L)
2	AC(N)
3	+Vo
4	+Vo
5	-Vo
6	-Vo

Note:

ADJ: adjustable resistance to change output voltage

Range: 24V-12AWG

Tightening torque: Max 0.4N·m

Mounting rail: TS35

General tolerances: ± 1.00 (± 0.039)