

ADF120 SERIES**120 Watts**

KEY FEATURES

- Din Rail Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function
- Free Air Convection
- Ultra Compact Size: 1.66 x 5.16 x 1.66 Inches
- 3-Years Product Warranty



ELECTRICAL SPECIFICATIONS

Model No.	ADF120-12S	ADF120-24S	ADF120-48S	
Max Output Wattage (W)	120W	120W	120W	
Input	Voltage			
	90-264 VAC or 120-370 VDC			
	Frequency (Hz)			
	47-63 Hz			
	Current (Full load)			
	<2.0 A max. (115 VAC) / <1.0 A max. (230 VAC)			
	Inrush Current (<2ms)			
< 30 A max. (115 VAC) / < 60 A max. (230 VAC)				
Output	Leakage Current			
	< 0.5 mA max.			
	Power Factor			
	PF>0.98 (115 VAC) / PF>0.94 (230 VAC) at Full Load			
	Voltage (V.DC.)		12V	24V
	Voltage Accuracy		±2%	
	Current (Convection) (A) max		10	2.5
Protection	Line Regulation			
	±1%			
	Load Regulation			
	±1%			
	Minimum Load			
	0%			
	Maximum Capacitive Load			
	470-23,000µF depending on model			
	Ripple & Noise			
	1% max.			
Isolation	Efficiency (typ.)		90%	
			91%	
			92%	
Environment	Hold-up Time			
	20 ms min.			
	Switching Frequency			
100 kHz				
Physical	Over Power Protection			
	Auto recovery			
	Over Voltage Protection			
Latch Off				
Safety & EMC	Short Circuit Protection			
	Auto recovery			
	Input-Output (V.AC)			
3000V				
Safety & EMC	Input-FG (V.AC)			
	1500V			
	Output-FG (V.AC)			
500V				
Environment	Operating Temperature			
	-10°C...+70°C (with derating)			
	Storage Temperature			
	-25°C...+85°C			
	Temperature Coefficient			
	±0.03%/°C (0~50°C)			
Physical	Humidity			
	95% RH			
	MTBF			
>50,000 h @ 25°C (MIL-HDBK-217F)				
Physical	Vibration			
	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.			
	Dimension (L x W x H)			
1.66 x 5.16 x 3.94 Inches (42.4 x 131.1 x 100 mm) Tolerance ±0.5 mm				
Physical	Weight			
	460 g			
	Cooling Method			
Free convection				
Safety & EMC	Safety Approvals			
	UL508			
	Approval			
	cUL / UL			
	EMI (Conducted & Radiated Emission)			
EN 55011 class B, EN 55022 class B				
EMS IMMUNITY				
EN55024, EN61000-6-2				
HARMONIC CURRENT				
EN61000-3-2				

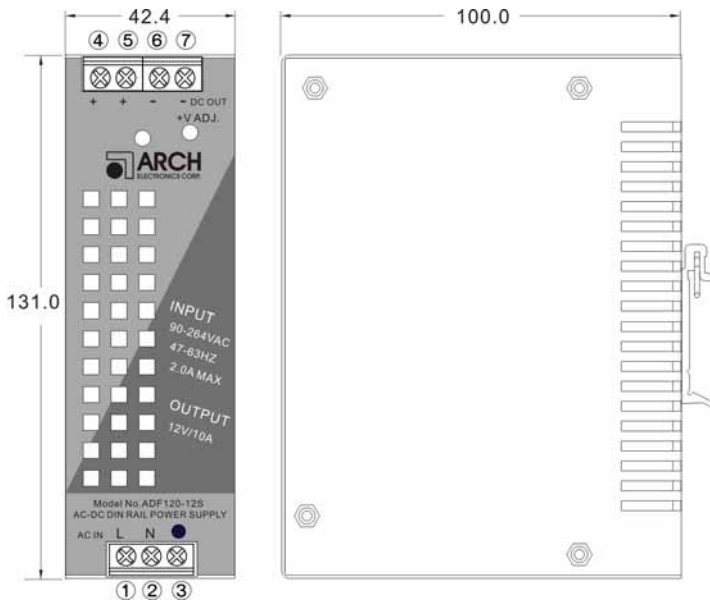
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Safety & EMC	Radiated Susceptibility	EN60601-1-2
	EFT / Burst	EN60601-1-2
	Surge	EN60601-1-2
	Conducted Susceptibility	EN60601-1-2

1. All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1μF & 47μF parallel capacitor.

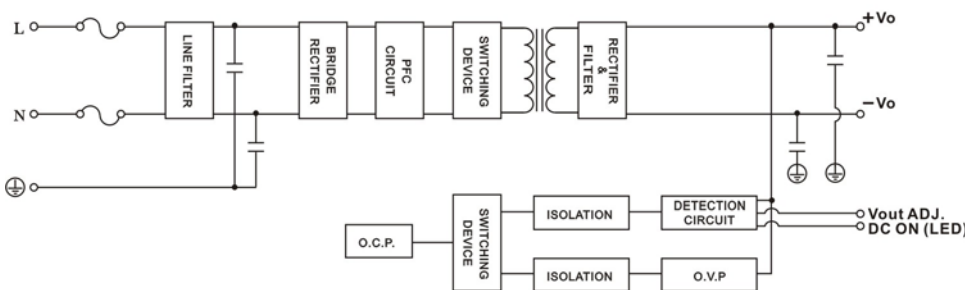
MECHANICAL DIMENSION (Top View)



PIN#	SINGLE
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT

BLOCK DIAGRAM

Single Output



DERATING

