

# ARCH AES600 AC-DC Switching Power Supply Datasheet

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## KEY FEATURES

- .. Open Frame Switching Power Supply
- .. Universal Input: 85-265 VAC
- .. Single Output
- .. 5 VDC to 48 VDC Output
- .. 3000 VAC Input to Output Isolation
- .. 3-Years Product Warranty

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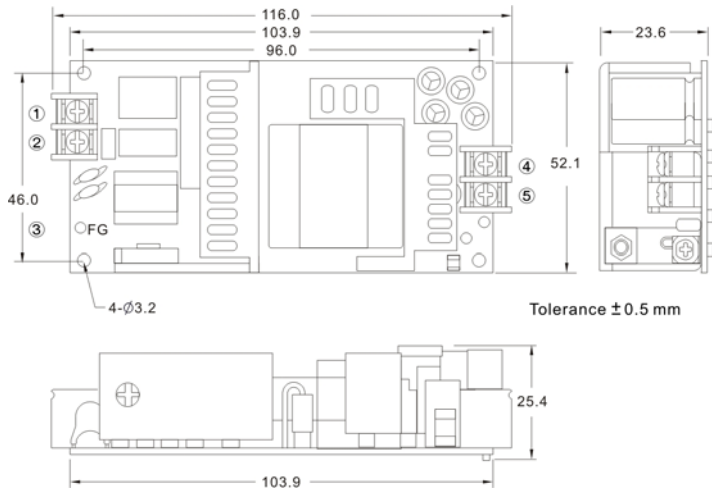

**ELECTRICAL SPECIFICATIONS**

Model No.	AES600-5S	AES600-9S	AES600-12S	AES600-15S	AES600-24S	AES600-48S	
Max Output Wattage (W)	50W	60W	60W	60W	60W	60W	
Input	Voltage						
	85-265 VAC or 100-370 VDC						
	Frequency (Hz)						
	47-63 Hz						
	Current (Full load)						
2 A max. (115 VAC) / 1 A max. (230 VAC)							
Inrush Current (<2ms)							
30 A max. (115 VAC) / 50 A max. (230 VAC)							
Leakage Current							
0.5 mA max.							
Output	Voltage (V.DC.)	5V	9V	12V	15V	24V	48V
	Voltage Accuracy	±2%					
	Current (mA) max	10,000	6,660	5,000	4,000	2,500	1,250
	Line Regulation (LL-HL) (typ.)	±1%					
	Load Regulation (5-100%) (typ.)	±1%					
	Minimum Load	1%					
	Maximum Capacitive Load	470-23,000µF depending on model					
	Ripple	<0.2% Vout +40mV max (Vp-p)					
	Noise	<0.5% Vout +50mV max (Vp-p)					
	Efficiency (at 230V)	82%	84%	86%	86%	86%	86%
	Trim	±10%					
	Hold-up Time	10 ms min.					
	Switching Frequency	100 kHz					
	Protection	Over Power Protection	Auto recovery				
Over Voltage Protection		Zener diode clamp					
Short Circuit Protection		Auto recovery					
Isolation	Input-Output (V.AC)	3000V					
	Input-FG (V.AC)	1500V					
	Output-FG (V.AC)	500V					
Environment	Operating Temperature	-40°C...+70°C (with derating)					
	Storage Temperature	-50°C...+85°C					
	Temperature coefficient	±0.02%/°C					
	Humidity	95% RH					
	MTBF	>130,000 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)	4.1 x 2.05 x 1.0 Inches ( 103.9 x 52.1 x 25.4 mm ) Tolerance ±0.5 mm					
	Weight	150 g					
Safety	Cooling Method	Free air convection					
	Agency Approvals	CE, UL60950					
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B					
	EMS (Noise Immunity)	EN 55024					

1.All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

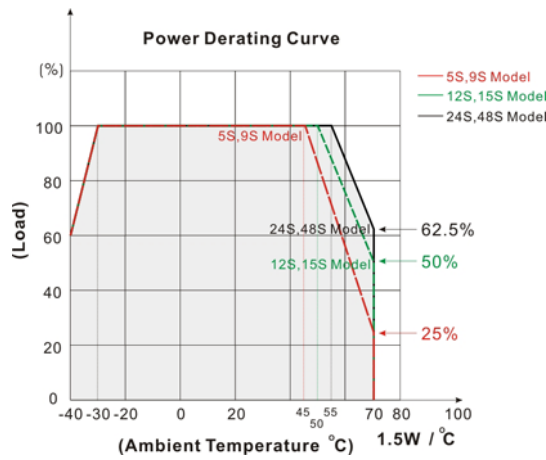
2.Ripple &amp; Noise are measured at 20MHz of bandwidth with 0.1µF &amp; 47µF parallel capacitor.

**MECHANICAL DIMENSION ( Top View )**



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

**DERATING**



**BLOCK DIAGRAM**

