

AQC60 SERIES

60 Watts

KEY FEATURES

- Switching Power Module for PCB Mountable
- Universal Input: 90-264 VAC
- Single Output
- 5 VDC to 24 VDC Output
- 3000 VAC Input to Output Isolation



ELECTRICAL SPECIFICATIONS

Model No.	AQC60-5S	AQC60-12S	AQC60-15S	AQC60-24S
Max Output Wattage (W)	50W	60W	60W	60W
Input	Voltage			
	90-264 VAC or 120-370 VDC			
	Frequency (Hz)			
	47-63 Hz			
	Current (Full load)			
2 A max. (115 VAC) / 1 A max. (230 VAC)				
Inrush Current (<2ms)				
20 A max. (115 VAC) / 40 A max. (230 VAC)				
Leakage Current				
3.5 mA max.				
Output	Voltage (V.DC.)			
	5V	12V	15V	24V
	Voltage Accuracy			
	±2%			
	Current (mA) max			
	10,000	5,000	4,000	2,500
	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 & Noise (Vp-p)				
100 mV max.	150 mV max.	200 mV max.	300 mV max.	
Efficiency				
76%	80%	80%	80%	
Trim				
±10%				
Hold-up Time				
18 ms min.				
Switching Frequency				
133 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			
	-25°C...+70°C (with derating)			
	Storage Temperature			
	-40°C...+85°C			
	Temperature coefficient			
±0.02%/°C				
Humidity				
95% RH				
MTBF				
>130,000 h @ 25°C (MIL-HDBK-217F)				
Physical	Dimension (L x W x H)			
	4.3 x 2.24 x 1.5 Inches (109.0 x 57.0 x 39.0 mm) Tolerance ±0.5 mm			
	Weight			
420 g				
Cooling Method				
Free air convection				
Safety	Agency Approvals			
CE, UL				
EMC	EMI (Conducted & Radiated Emission)			
	EN 55022 class B			
EMS (Noise Immunity)				
EN 55024				

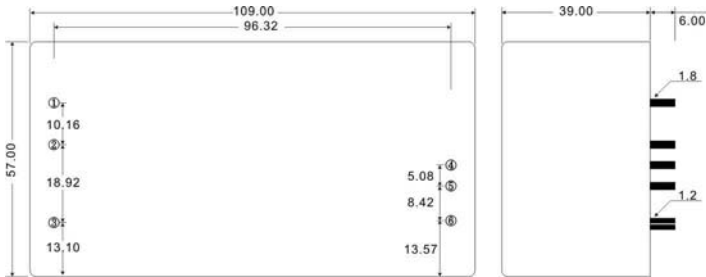
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Measured with 0.1µ 50V // 47µ 50V Ceramic Cap. Cross to output

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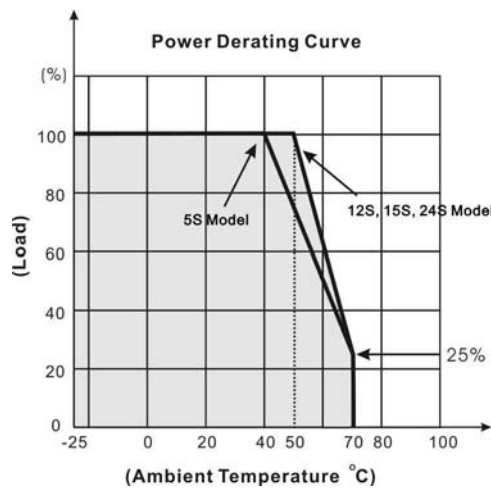
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MECHANICAL DIMENSION (Top View)



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

DERATING



BLOCK DIAGRAM

