

100 Watt, AQC100 Series, Encapsulated Power Supply

ALL PSU LTD
Electronic Power Solutions

- Universal AC Input
- Fully Encapsulated, Very Compact PCB Mounting Plastic Case
- High Efficiency – Up to 93%
- Short Circuit, OVP, Over Load Protected
- Convection Cooled
- Full Approvals: UL/CE
- Low Ripple And Noise



Specification

Input Voltage.....	90~264 VAC, 47~63 Hz (120-370 VDC)
Active PFC.....	>0.95 (230 VAC), >0.99 (115 VAC)
Inrush Current.....	<30 A @ 115 VAC, <60 A @ 230 VAC (<2ms)
Output Voltage.....	Single Outputs, See table below
Output Voltage Adjustment.....	via Trim PIN, typically +/-5%
Load Regulation.....	+/-1% typical
Line Regulation.....	+/-1% typical
Over Voltage Protection.....	Zener Diode Clamp
Over Load Protection.....	Automatic recovery, hiccup mode
Short Circuit Protection.....	Automatic recovery, hiccup mode
Hold Up Time.....	10 ms (110VAC), min
Input to Output Isolation.....	I/P-O/P: 3 kVAC,
Operating Temperature	-25 to +70 °C, see derating curve
Storage Temperature.....	-25 to +85 °C
Switching Frequency.....	100 kHz
Safety Standards.....	UL60950-1, CE
EMC.....	EN55022 class B, EN61000-6-3, EN55024 EN61000-4-2,3,4,5,6,8,11
Mechanical	Encapsulated, 109 x 58.5 x 30 mm
Weight.....	310 g
Connections Input & Output.....	PCB mounting: through hole pins

Models and Ratings

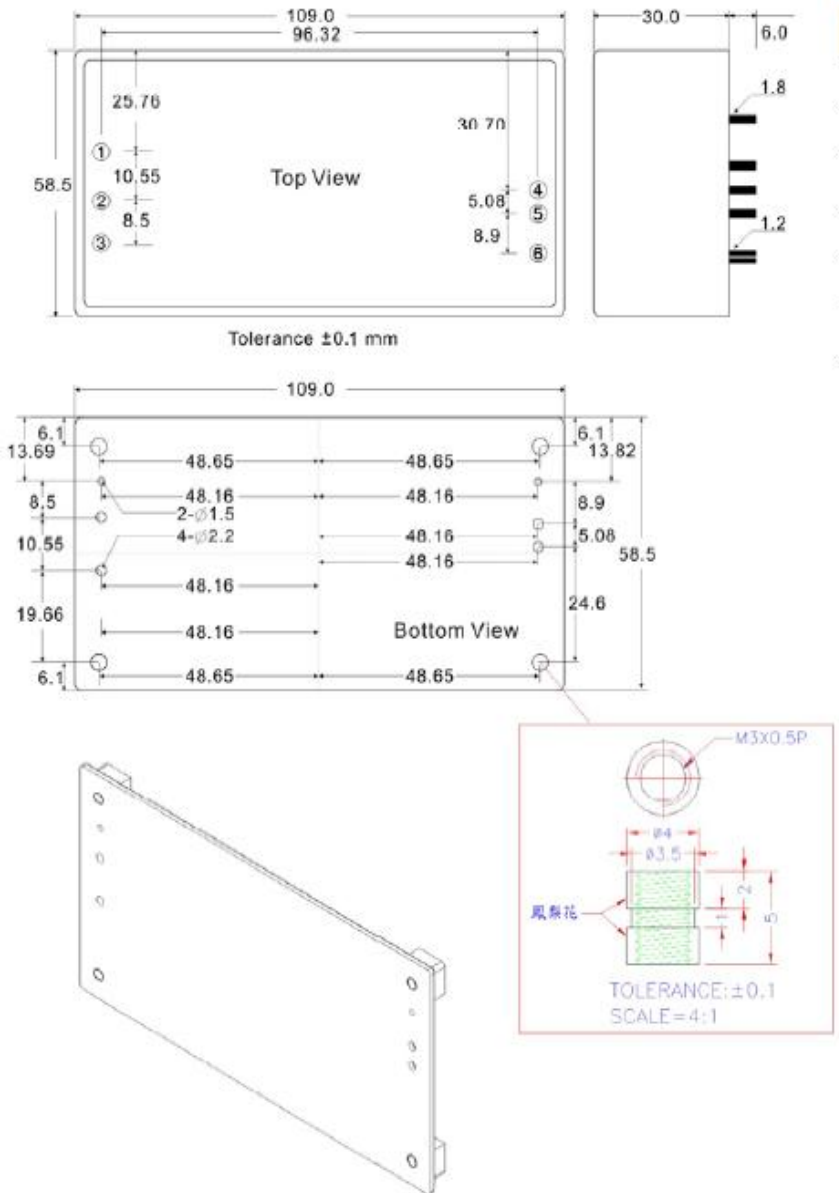
Model	Output Voltage	Output Current	Efficiency
AQC100-12S-AP	12.0 V	7.08 A	90 %
AQC100-15S-AP	15.0 V	5.66 A	90 %
AQC100-24S-AP	24.0 V	4.20 A	92 %
AQC100-48S-AP	48.0 V	2.10 A	93 %

Please see next page for mechanical drawings.

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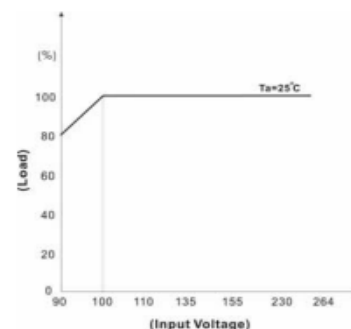
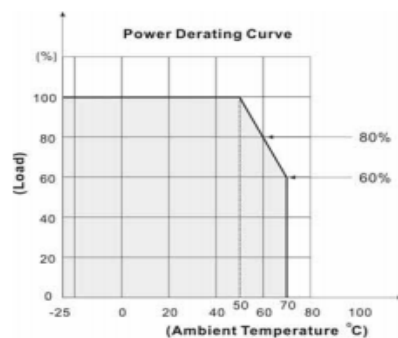
Mechanical Drawing and PIN Out.



PIN	Single
1	AC IN (Neutral)
2	AC IN (Live)
3	Input Earth
4	+DC OUT
5	-DC OUT
6	Output Voltage Trim

Note : Remote on / off function available as an option if required.

4 Corner mounted M3 bushes are fitted to base of unit for mechanical fixing.



Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.

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