

## 40 Watt, AJC Series, Encapsulated Power Supply



electronicpowersolutions

- Universal AC Input
- Fully Encapsulated, PCB Mounting Plastic Case plus option of Chassis or DIN Rail Mounting with Screw Terminal Connections
- Wide Temperature Range
- Short Circuit, OVP Protected
- Convection Cooled
- Full Approvals: UL/cUL/CE
- Single, Dual and Triple Output Versions



### Specification

Input Voltage.....	90~264 VAC, 47~440 Hz (100-375 VDC)
Inrush Current...(<2ms).....	30 A @ 115 VAC, 50 A @ 230 VAC
Output Voltage.....	See table below
Load Regulation.....	Single output: +/-1%, Dual equal +/- outputs: +/- 1% Dual output: +/-2% output 1, +/-6% output 2 Triple output +/- 3% output 1, +/-7% outputs 2 & 3
Line Regulation (full range).....	Single & Dual equal +/--outputs, +/-0.5% Dual outputs: +/-0.5% output 1, +/-5% output 2 Triple output +/- 0.5% output 1, +/-5% outputs 2 & 3
Over Voltage Protection.....	Zener diode clamp
Short Circuit Protection.....	Hiccup mode, indefinite (automatic recovery)
Hold Up Time.....	10 ms, min
Input to Output Isolation.....	Input to output: 3 kVAC
Operating Temperature .....	-25 to +70 °C, see derating (max. case temperature +95 °C)
Storage Temperature.....	-40 to +100 °C
Switching Frequency.....	132 kHz
Safety Standards.....	UL/cUL 60950, CE
EMC.....	EN55022 Class B, EN55024
Mechanical (PCB Mount Version).....	Encapsulated, 89 x 63.5 x 25 mm
Connections Input & Output.....	PCB mounting: through hole pins
Mechanical Options.....	Chassis mounting with screw terminal connections

### Models and Ratings

Model	Output 1	Output 2	Output 3	Output Current	Efficiency
AJC-3.3S-AP	3.3 V			8.0 A	76%
AJC-5S-AP	5.0 V			8.0 A	80%
AJC-9S-AP	9.0 V			4.44 A	82%
AJC-12S-AP	12.0 V			3.33 A	83%
AJC-15S-AP	15.0 V			2.67 A	83%
AJC-24S-AP	24.0 V			1.67 A	83%
AJC-5D-AP	+5.0 V	-5.0 V		+/-4.0 A	80%
AJC-12D-AP	+12.0 V	-12.0 V		+/-1.67 A	83%
AJC-15D-AP	+15.0 V	-15.0 V		+/-1.33 A	83%
AJC-5S12S-AP	+5.0 V	+12.0 V		5 A / 1.25 A	80%
AJC-5S24S-AP	+5.0 V	+24.0 V		5 A / 0.63 A	80%
AJC-5S12D-AP	+5.0 V	+12.0 V	-12.0 V	5 A / +/-0.6 A	80%
AJC-5S15D-AP	+5.0 V	+15.0 V	-15.0 V	5 A / +/-0.5 A	80%

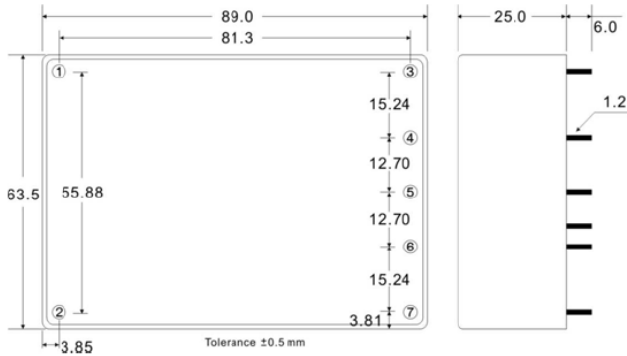
Notes: A minimum load of 10% is required on symmetrical dual output models to maintain stated regulation  
A minimum load of 25% is required for all other multi-output models to maintain stated regulation

Please see next page for mechanical drawings.

ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,  
Rochester, Kent, ME2 4HU, Tel: 01634 725527, Fax: 01634 739111  
Email: sales@allpsu.co.uk, Web: www.allpsu.co.uk

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## Mechanical Details (top view)



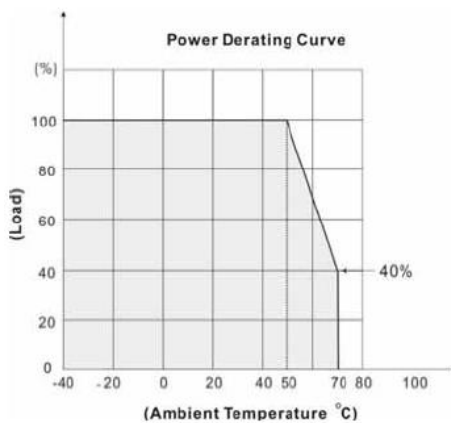
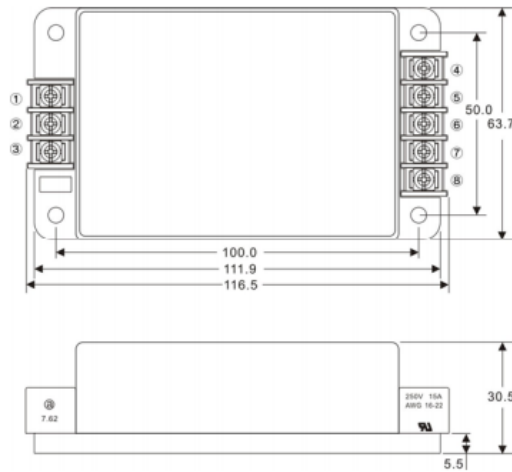
## Pinout Details

Pin	Function			
	Single	Dual (Equal)	Dual	Triple
1	AC Live	AC Live	AC Live	AC Live
2	AC Neutral	AC Neutral	AC Neutral	AC Neutral
3	+DC Out	+DC out	+O/P 2	+DC Out
4	No Pin	No Pin	+O/P 1	+5V
5	-DC Out	Common	O/P2 Rtn	Common
6	No Pin	No Pin	O/P1 Rtn	+5V Rtn
7	No Connect	-DC Out	No Pin	-DC Out

## Mechanical Options – add suffix

**-A5** = Chassis mounting with screw terminals for crimped terminals  
 Please contact ALL PSU sales office for further details.

### Option “A5”



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

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 Rochester, Kent, ME2 4HU, Tel: 01634 725527, Fax: 01634 739111,  
 Email: sales@allpsu.co.uk Web: www.allpsu.co.uk**