

8 Watt, ALC Series, Encapsulated Power Supply



electronicpowersolutions

- Universal AC Input (extended range)
- Fully Encapsulated, PCB Mounting
- Extra Wide Temperature Range From -40°C
- Short Circuit, Over Voltage, Over Power Protected
- Convection Cooled
- Full Approvals: UL/cUL/CE
- Low Ripple And Noise
- <0.3 Watts No Load Input Current
- 3 Years Warranty



Specification

Input Voltage.....	90~305 VAC, 47~440 Hz (120-430 VDC)
Inrush Current.....	25 A @ 115 VAC, 45 A @ 230 VAC
Output Voltage.....	See table below, +/-2% accuracy
Load Regulation (0% to 100% load)	+/-3% (3.3V o/p) +/-2% (5 V o/p) +/-0.5% (Others)
Line Regulation (full range).....	+/-0.2% (single o/p), +/-0.2% (Dual o/p 1) +/-3% (Dual o/p 2)
Over Voltage Protection.....	Zener diode clamp
Short Circuit Protection.....	Hiccup mode, indefinite (automatic recovery)
Hold Up Time.....	10 ms, min
Input to Output Isolation.....	I/P-O/P: 3 kVAC,
Operating Temperature	-40 to +70 °C, see derating curve
Storage Temperature.....	-40 to +125 °C
Switching Frequency.....	132 +/-8 kHz
Safety Standards.....	UL/cUL, CE
EMC.....	EN55022 Class B, EN55024
MTBF.....	>350K hours @ 25°C (MIL-HDBK-217F)
Mechanical (PCB Mount	Encapsulated, 37.66 x 28.16 x 27.5 mm
Connections Input & Output.....	PCB mounting: through hole pins

Models and Ratings (Single & Dual Outputs)

Model	Output 1	Output 2	Output Current	Efficiency
ALC-3.3S-AP	3.3 V		2000 mA	69%
ALC-5S-AP	5.0 V		1600 mA	75%
ALC-8S-AP	8.0 V		1000 mA	78%
ALC-9S-AP	9.0 V		888 mA	79%
ALC-12S-AP	12.0 V		666 mA	79%
ALC-14S-AP	14.0 V		571 mA	80%
ALC-15S-AP	15.0 V		533 mA	81%
ALC-24S-AP	24.0 V		335 mA	81%
ALC-5S3.3S-AP	5.0 V	3.3 V	1600 / 310 mA	73%
ALC-8S5S-AP	8.0 V	5.0 V	1000 / 100 mA	78%
ALC-12S5S-AP	12.0 V	5.0 V	666 / 100 mA	79%

Please see next page for mechanical drawings.

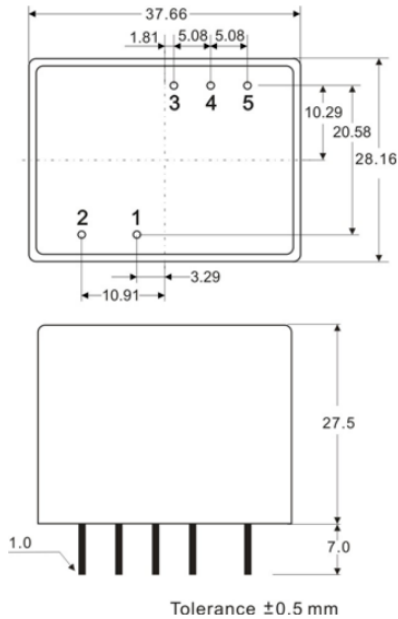
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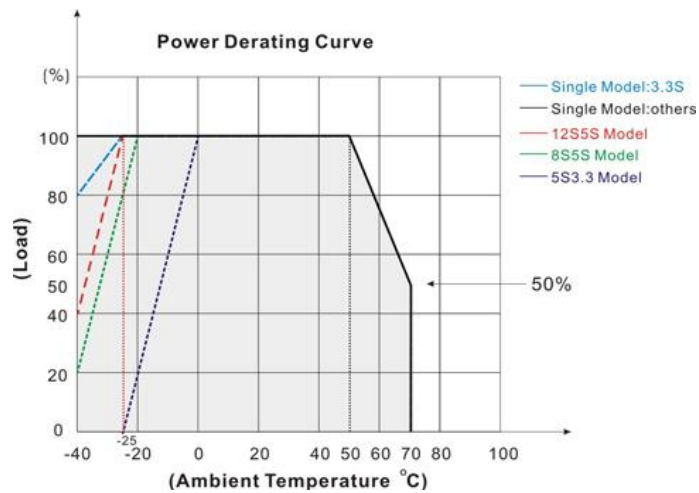
Mechanical Details



Pinout

Pin	Function	
	Single o/p	Dual o/p
1	AC IN (Neutral)	AC IN (Neutral)
2	AC IN (Live)	AC IN (Live)
3	NC	+ Voltage 2
4	+ DC OUT	+ Voltage 1
5	GND	GND

Derating Curve



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

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