



**International
Components
Corporation**

TM

FXA350 Series

350 Watts
Switch Mode Power Supply

TECHNICAL SUPPORT

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ENERGY STAR PARTNER

As a Global Supplier of Power Supplies, we are committed to meeting energy efficiency standards around the world. That is why we have partnered with the ENERGY STAR® Program and engineer our Elpac Power Systems™ to meet strict energy-efficiency guidelines established by the EPA and the US Department of Energy (DOE). The Energy Star program has developed International partnerships with countries and organizations in major global markets. Those participating in the program include Australia, Canada, European Union, European Free Trade Association, Japan, New Zealand, and Taiwan.

Furthering our International commitment, we have signed the EU Code of Conduct on Efficiency of External Power Supplies. Our Elpac Power Systems™ FXA350 series meets the efficiency standards of the International ENERGY STAR® program and the EU Code of Conduct.

→E Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



5-YEAR LIMITED WARRANTY*

- Wide Range AC Input
- Power Factor Correction
- +5V Standby & Fan Power
- Fully regulated DC output
- High Efficiency
- ENERGY STAR Level V
- EISA and CEC Compliant
- Grounded Output
- ITE and Medical Grade Approval

Input	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<5A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.98
Zero Load Power Consumption	0.75W
Touch Current/ Leakage Current (typical)	<200µA @ 132VAC @ 60Hz
	<300µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1s
Hold-Up Time	>24ms at any input voltage
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110 – 135%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protection	120 – 180%
Short Circuit Protection	Shutdown, auto-restart (hiccup mode)

Notes

*visit www.iccus.com for complete details

**Ripple and noise measured with 20MHz bandwidth; 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.





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Model Number	Output Voltage	Output Current ¹	Forced Air Current ²	+5V Standby Output Current ³	Adjustable Fan Output Current ⁴	Typical Efficiency ⁵
FXA350012A	12.0V	20.0A	28.0A	1.0A	0.35A	88%
FXA350015A	15.0V	16.5A	23.0A	1.0A	0.35A	88%
FXA350024A	24.0V	10.5A	14.5A	1.0A	0.35A	88%
FXA350028A	28.0V	9.0A	12.5A	1.0A	0.35A	89%
FXA350048A	48.0V	5.3A	7.4A	1.0A	0.35A	88%

Notes

- 1) With convection cooling. Peak load (350W) lasting up to 500ms with a maximum 10% duty cycle.
- 2) Sustained output current with minimum 100 LFM.
- 3) Output present when ever AC input is applied
- 4) Output self adjusting dependant on ambient temperature. Range of 5 to 13V over 25°C to 50°C ambient.
- 5) Typical at 115VAC.

General		Environmental		EMC & Safety	
Energy Star Efficiency	Avg Efficiency 88.5% @ 115VAC; 90.6% @ 230VAC	Operating Temperature	0 – 70°C (Full load to 50°C, derate linearly to 50% load at 70°C)	Emissions	FCC class B, CISPR22 class B EN61000-3-2, -3
MTBF	min. 200,000 hours demonstrated	Storage Temperature	-40°C to +85°	Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Size	8.00" (203.2mm) x 5.00" (127mm) x 1.50" (38.1mm)	Relative Humidity	5-95%, non-condensing	Certified by TUV to the following: 	cTUVus
Weight	2.1 lbs (0.95Kg)	Cooling	Natural Convection (250W) or Forced Air (350W)		UL 60950-1
Total Regulation	±5% (incl. line & load regulation, and thermal drift)	Vibration	All units production tested to 19.6m/s ²		CAN/CSA-22.2 No.60950-1
					CB per IEC60950-1
					CE marked to LVD



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Input Configuration (H1)

Connection on Power Supply Body	JITE p/n BTB555-10-03 Barrier Strip, M3 screws
Pin 1	AC Line
Pin 2	AC Neutral
Pin 3	Gnd

Output Configuration (H4)

Connector (PSU side)	JITE p/n BTB555-10-04 Barrier Strip, M3 screws
Pin 1	+V1
Pin 2	+V1
Pin 3	Return
Pin 4	Return

Signal Configuration (H2)

Connector:	AMP P/N 640456-8 or equivalent	
Mating connector:	AMP p/n 640440-8 or equivalent	
Pin 1	DC-Good	TTL high when DC is within regulation
Pin 2	AC-Fail	TTL high when AC is present; min. 8ms warning before loss of DC output
Pin 3	Remote On/Off	Connect to Pin 7 (Rtn) to enable power supply
Pin 4	+ Sense	Must be connected to output, either at H4 connector, or at point of load. Will compensate for up to 500mV cable drop.
Pin 5	- Sense	
Pin 6	<no connection>	
Pin 7	Return	Return for Remote on/off and +5V Standby
Pin 8	+5V Standby	Return to Pin 7 for +5V @ 1.0A Standby output

Fan Configuration (H3)

Connector:	AMP P/N 640456-2 or equivalent	
Mating connector:	AMP p/n 640440-2 or equivalent	
Pin 1	+V	Fan output will adjust from +5V to +12V depending on ambient temperature.
Pin 2	-V	

Ordering Options Available

Cooling	Cable Harness
Floating Output	Load Share
Chassis Mount	

Mechanical Drawing

