



# ELPAC FXA350 SERIES CLASS I

250 Watt  
ITE Open Frame Power Supply

- Safety Approval – IEC62368-1 Class I
- High Efficiency
- Up to 350W with Forced Air
- +5V Standby & Fan Power
- High Power Density 5.83W/in<sup>3</sup>
- Lifetime Expectation >5 years
- Grounded Output
- 5-Year Limited Warranty



INPUT	
Input Voltage	85 – 264VAC (100 – 240VAC Nominal)
Input Frequency	47 – 63Hz (50-60Hz Rated)
Input Current	5.0A-2.0A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power	<0.75W
Touch Leakage Current	<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	>20ms at any input voltage of full load
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110 – 135%
Over Temperature Protection	Active - Recoverable; Passive - Non recoverable
Over Current Protection	120 – 180%
Short Circuit Protection	Shutdown, auto-restart (hiccup mode)

## Notes

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

Model Number	Output Voltage	Output Current	Peak Current <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
FXA350012A	12.0V	20.8A	29.1A	±5%	88%
FXA350015A	15.0V	16.6A	23.2A	±5%	88%
FXA350024A	24.0V	10.4A	14.5A	±5%	88%
FXA350028A	28.0V	8.9A	12.5A	±5%	89%

## Notes

1) Maximum peak load (350W) lasting 500ms with a maximum 10% duty cycle, Sustained output current (350W) with minimum 150 LFM.

2) Includes initial setting, line regulation, load regulation, and thermal drift.

3) Typical Efficiency at Full Load 115 VAC.

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**inVENTUS**<sup>™</sup>  
POWER

## General

Efficiency	Avg. Efficiency 88.0% @ 115VAC; Avg. Efficiency 90.0% @ 230VAC;
MTBF	min. 200,000 hours, SR-332 issue 3
Size	8.00" (203.2mm) x 5.00" (127mm) x 1.50" (38.1mm)
Weight	2.1 LBS (0.95 Kg)
Power Density	5.83W/in <sup>3</sup>
Altitude (Operating/ Non Operating)	5000M

## Environmental

Operating Temperature	0–50°C (Full load to 50°C, derate linearly to 50% load at 70°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection (250W) or Forced Air (350W)
Vibration	Unites meet MIL-STD-810G Figure 514.6C-1 category 4

## EMC & Safety

Emissions	FCC class B, EN55035:2017+A11:2020 EN55032:2015+A11:2020
Immunity	EN61000-4-2, -3, -4, -5, -6, -11
Certified by TUV to the following:	cTUVus
	UL62368-1:2014
	CAN/CSA-22.2 No.62368-1-14
	CB per IEC 62368-1:2014
	CE marked to LVD and CE EMC

## Input Configuration (H1)

Connection on Power Supply Body	JITE P/N BTB5551003 Barrier Strip, M3 screws
Pin 1	AC Line
Pin 2	AC neutral
Pin 3	Ground

## Signal Configuration (H2)

Connector	AMP P/N 6404568 or equivalent
Mating Connector	AMP P/N 6404408 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 for Remote on/off and +5V Standby
Pin 8	Return to Pin 7 for +5V @ 1.0A Standby output

## Output Configuration (H4)

Connector (PSU side)	JITE P/N BTB5551004 Barrier Strip, M3 screws
Pin 1	+V1
Pin 2	+V1
Pin 3	Return
Pin 4	Return

## Fan Configuration (H3)

Connector (PSU side)	AMP P/N 6404568 or equivalent
Mating Connection	AMP P/N 6404408 or equivalent
Pin 1	+V (Fan output will adjust from +5V to +12V depending on ambient temperature) maximum 0.35A
Pin 2	-V

## Mechanical Drawing

