

ELPAC FXA350 SERIES

350 Watt

ITE/Medical Open Frame Power Supply

- Safety Approval - EN60950-1
- Medical Approval - EN60601-1
- Wide Range AC Input
- +5V Standby & Fan Power
- EISA, CEC Compliant
- 5-Year Limited Warranty
- ITE & Medical Grade Approval



Model Number	Output Voltage	Output Current ¹	Forced Air Current ²	Typical Efficiency ³
FXA350012A	12.0V	20.0A	28.0A	88%
FXA350015A	15.0V	16.5A	23.0A	88%
FXA350024A	18.0V	10.5A	14.5A	88%
FXA350028A	24.0V	9.0A	12.5A	89%
FXA350048A	48.0V	5.3A	7.4A	88%

Notes

1) With convection cooling. Peak load (350W) lasting up to 500ms with a maximum 10% duty cycle.

2) Sustained output with 100 LFM airflow

3) Typical at 115VAC

INPUT	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<5A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	0.75W
Power Factor	>0.98
Touch 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

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

General	
Efficiency	Avg. Efficiency 88.5% @ 115VAC; 90.6% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	8.0" (203.2mm) x 5.00" (127mm) x 1.50" (38.1mm)
Weight	2.1 lbs (0.95 Kg)

Environmental	
Operating Temperature	0 – 70°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	All units production tested to 19.6m/s ²

EMC & Safety	
Emissions	FCC class B, CISPR22/CISPR11 class B EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Certified by TUV to the following:	cTUVus
	UL 60950-1; UL 60601-1
	CAN/CSA-22.2 No.60950-1; CAN/CSA-22.2 No.601.1-M90
	CB per IEC60950-1; IEC60601-1
	CE marked to LVD

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 2	+V (Fan output will adjust from +5V to +12V depending on ambient temperature) maximum 0.35A
Pin 3	-V

Mechanical Drawing

