



ELPAC FWA150 SERIES CLASS I

150 Watt
ITE Desktop Power Supply

- Safety Approval - EN60601-1 Class I
- High Efficiency: Level V
- High Power Density 5.4W/in³
- Lifetime Expectation >5 years
- Hold-up Time >25ms at full load
- Power Factor Correction
- 5-Year Limited Warranty



INPUT

Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<2A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power Consumption	<0.5W
Earth Leakage Current (Typical)	<200μA @ 132VAC @ 60Hz <300μA @ 264VAC @ 60Hz
Touch Leakage Current	<50μA @ 132VAC @ 60Hz <75μA @ 264VAC @ 60Hz

OUTPUT

Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1.5s
Hold-Up Time	>25ms 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.

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inventusTM
POWER

Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
FWA150012A-12A	12.0V	12.5A	15.0A	±5%	89%
FWA150015A-12A	15.0V	10.0A	12.0A	±5%	90%
FWA150018A-12A	18.0V	8.3A	10.0A	±5%	90%
FWA150024A-12A	24.0V	6.3A	7.5A	±5%	91%
FWA150028A-11A	28.0V	5.3A	6.4A	±5%	91%
FWA150048A-11A	48.0V	3.2A	3.75A	±5%	92%

Notes

1) Maximum peak load (180W) lasting 500ms with a maximum 10% duty cycle.

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

3) Typical at 115VAC (including output cable).

General		Environmental	EMC & Safety
Efficiency	Avg. Efficiency 90.8% @ 115VAC; 92.8% @ 230VAC	Operating Temperature	Emissions
MTBF	min. 200,000 hours demonstrated	Storage Temperature	Immunity
Size	7.56" (192mm) x 2.45" (62.2mm) x 1.52" (38.7mm)	Relative Humidity	Certified by TUV to the following:
Weight	1.55 lbs (0.70 Kg)	Cooling	
Power Density	5.4W/in ³	Vibration	

Input Configuration		Output Configuration	Output Pin Assignments	
Standard Input Cable	Not Provided	Standard Output Cable	Pin 1	+V1
Connection on Power Supply Body	IEC 320 C14 Receptacle Body	Cord Size	Pin 2	+V1
		Connector (PSU side)	Pin 3	Return
		Mating Connector	Pin 4	+V1
			Pin 5	Return
			Pin 6	+V1
			Pin 7	Return
			Pin 8	Return

*with EMI bead

Mechanical Drawing	
	