



## ELPAC FWE050 SERIES CLASS II

50 Watt  
ITE Desktop Power Supply

- High Efficiency
- Fully Regulated DC Output
- 5-Year Limited Warranty
- Hold-up Time >10ms at full load
- Safety Approval-EN60950-1 Class II
- Level VI, EuP Directive Compliant
- LED Indicator



INPUT	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<1.5A rms
Inrush Current	<60A at 230VAC cold start
Zero Load Power Consumption	<0.15W
Earth Leakage Current (Typical)	NA
	NA
Touch Leakage Current	NA
	<200µA @ 264VAC @ 60Hz @NC

OUTPUT	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<2.0s
Hold-Up Time	>10ms
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	112 – 150%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protection	108 – 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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Model Number <sup>1</sup>	Output Voltage	Output Current	Peak Current <sup>2</sup>	Total Regulation <sup>3</sup>	Typical Efficiency <sup>4</sup>
FWE050012B-10A	12.0V	4.2A	5.0A	±5%	88.2%
FWE050015B-10A	15.0V	3.33A	4.0A	±5%	90.0%
FWE050018B-10A	18.0V	2.78A	3.3A	±5%	90.0%
FWE050024B-10A	24.0V	2.1A	2.5A	±5%	90.0%

**Notes**

- 1) AC cord not included - AC cord part number 67400-242-AB can be ordered separately.
- 2) Maximum peak load (60W) lasting 500ms with a maximum 10% duty cycle.
- 3) Includes initial setting, line regulation, load regulation, and thermal drift.
- 4) Typical at 115VAC (including output cable).

General		Environmental		EMC & Safety	
Efficiency	Avg. Efficiency 89% @ 115VAC; 89% @ 230VAC	Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)	Emissions	EN 55032 Class B, FCC Class B, EN 61000-3-2, -3
MTBF	min. 200,000 hours SR-332 issue 3	Storage Temperature	-40°C to +85°C	Immunity	EN 61000-4-2, -3, -4, -5, -6, -11
Size	4.50" (114.2mm) x 2.26" (57.5mm) x 1.44" (36.5mm)	Relative Humidity	5-93%, non-condensing	Certified by TUV to the following: CB (IEC 60950-1:2005+A1+A2) cTUVus UL 60950-1 & CAN/CSA-C22.2 No.60950-1 China CCC CE marked to LVD, EMC directive and RoHS II directive	
Weight	0.44 lbs (0.2Kg)	Cooling	Natural Convection		
Power Density	3.4 W/in <sup>3</sup>	Vibration	Using MIL-STD-810G vibration of Figure 514.6C-I and the value of Table 514.6C-II, test duration shall be one hour in each axis.		

Input Configuration		Output Pin Assignments		Output Configuration		
Standard Input Cable	Not Provided - Available Separately (p/n 67400-242-AB)	Center	+V1		Standard Output Cable	4ft
Connection on Power Supply Body	IEC 320 C8 Receptacle	Outside	Return		Cord Size	2x16awg(12V,15V); 2x18awg(18V,24V)
				Connector (PSU side)	Switchcraft 760 or equivalent	
				Mating Connector	Switchcraft 712A or equivalent	

