



## **FWE050 Class I**

### 50 ITE Desktop Power Supply

- High Efficiency
- Fully Regulated DC Output
- 5-Year Limited Warranty
- Hold-up Time > 16ms at full load
- Safety Approval-EN60950-1 Class I
- Level V, EuP Directive Compliant
- LED Indicator

### **Overview**

Over the later part of 2015, we will be changing the way we sell ITE power supplies thru distribution to no longer include AC cords with the units. During this time of transition you find both versions available for sale. They can be distinguished by the part number, parts ending in -10B will include a cord in the box, parts ending in -10A will not include a cord. If your distributor has not already made a recommendation on a cord, please do not hesitate to ask us for assistance.

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
FWE050009A-10A	9.0V	5.0A	6.0A	+/-5%	87.6%
FWE050009A-10B	9.0V	5.0A	6.0A	+/-5%	87.6%
FWE050012A-10B	12.0V	4.25A	5.0A	+/-5%	88.6%
FWE050012A-10A	12.0V	4.25A	5.0A	+/-5%	88.6%
FWE050015A-10B	15.0V	3.3A	4.0A	+/-5%	89.8%
FWE050015A-10A	15.0V	3.3A	4.0A	+/-5%	89.8%
FWE050018A-10B	18.0V	2.7A	3.3A	+/-5%	90.3%
FWE050018A-10A	18.0V	2.7A	3.3A	+/-5%	90.3%
FWE050024A-10B	24.0V	2.1A	2.5A	+/-5%	90.6%
FWE050024A-10A	24.0V	2.1A	2.5A	+/-5%	90.6%
FWE050048A-10B	48.0V	1.05A	1.3A	+/-5%	90.3%
FWE050048A-10A	48.0V	1.05A	1.3A	+/-5%	90.3%

### Input

Input Voltage	85-264VAC; 100-240VAC Nominal
Input Frequency	47-63Hz
Input Current	<1.0A rms
Inrush Current	<60A @ 230VAC cold start
Zero Load Power Consumption	<0.3W
Earth Leakage Current (Typical)	<100µA @ 132VAC @ 60Hz (typical) <150µA @ 264VAC @ 60Hz (typical)

## Output

Output Voltage	See Model Overview Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1.5s
Hold-Up Time	>16ms at any input voltage
Ripple & Noise	<1% pk-pk**
Over Voltage Protection	112-135%
Over Temperature Protection	First Stage - Recoverable; plus 2nd stage - Non Recoverable
Over Current Protection	108% - 180%
Short Circuit Protection	Shutdown, auto-restart (hiccup mode)


## General

Efficiency	Avg Efficiency 897% at 115VAC; 88% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	3.53" x 1.92" x 1.00"   89.6mm x 48.4mm x 25.2mm
Weight	9V 0.6lbs (0.27Kg); 24V 0.5 lbs (0.23Kg)
Power Density	7.4 W/in <sup>3</sup>

## Environmental

Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s <sup>2</sup>

## EMC & Safety

Emissions	FCC class B, 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 606950-1
	CAN/CSA-22.2 No.950
	CB per IEC60950-1 2nd edition
	CE marked to LVD directive and RoHS II directive

## Input Configuration

Standard Input Cable	Not Provided
Connection on Power Supply Body	IEC 320 C6 Receptacle

## Output Configuration

Standard Output Cable	4 ft.
Cord Size	2x16awg zip
Connector (PSU side)	Switchcraft 760 or equivalent
Mating Connector	Switchcraft 712A or equivalent

## Output Pin Assignments



Center	+v1
Outside	Return

