



ELPAC FWC100 SERIES CLASS I

100 Watt
ITE Desktop Power Supply

- ITE Approval - EN60950
- High Efficiency: Level VI
- LED Indicator
- Hold-up Time >20ms at full load
- Grounded Output
- 5-Year Limited Warranty
- Lifetime Expectation >5 years



Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
FWC100012A-12A	12.0V	8.3A	10.0A	±5%	89%
FWC100015A-12A	15.0V	6.6A	8.0A	±5%	90%
FWC100018A-11A	18.0V	5.5A	6.7A	±5%	90%
FWC100024A-11A	24.0V	4.1A	5.0A	±5%	90%
FWC100048A-11A	48.0V	2.0A	2.5A	±5%	91%

Notes

- 1) Maximum peak load (120W) 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).

INPUT	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<2A rms
Inrush Current	<60A at 230VAC cold start
Power Factor	>0.97
Zero Load Power Consumption	<0.2W
Earth Leakage Current (Typical)	<150µA @ 132VAC @ 60Hz
	<240µA @ 264VAC @ 60Hz

OUTPUT	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1.5s
Hold-Up Time	>20ms 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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General	
Efficiency	Avg. Efficiency 90.8% @ 115VAC; 92.8% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	7.09" (180.2mm) x 2.27" (57.5mm) x 1.52" (38.7mm)
Weight	1.55 lbs (0.70 Kg)
Power Density	4.2W/in ³

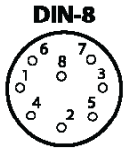
Environmental	
Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s ²

EMC & Safety	
Emissions	FCC class B, CISPR2.2 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
	CAN/CSA-22.2 No.60950-1
	CB per IEC60950-1
	CE marked to LVD& EMC

Input Configuration	
Standard Input Cable	Not Provided
Connection on Power Supply Body	IEC 320 C14 Receptacle

Output Configuration	
Standard Output Cable	4ft for 12V & 15V 6ft for 18V, 24V & 48V
Cord Size	4x16awg (12V& 15V); 4x18awg (18V - 48V)
Connector (PSU side)	Switchcraft DIN-8 (12-15V) P/N 15BL8MX (male pins) Switchcraft DIN-5 (18-48V) P/N 05BL5MX (male pins)

Output Pin Assignments 12V, 18 V	
Pin 1	+V1
Pin 2	+V1
Pin 3	Return
Pin 4	+V1
Pin 5	Return
Pin 6	+V1
Pin 7	Return
Pin 8	Return



Output Pin Assignments 18-48V	
Pin 1	Return
Pin 2	Return
Pin 3	+V1
Pin 4	Return
Pin 5	+V1

