



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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 <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
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.



# ELPAC FWC100 SERIES

100 Watt

Medical Desktop Power Supply

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 <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, 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



## Mechanical Drawing

