

# ELPAC FWA020 SERIES CLASS I

20 Watt  
ITE Desktop Power Supply



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



Model Number	Output Voltage	Output Current	Peak Current <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
FWA020012A-10A	12.0V	1.6A	1.9A	±5%	88.4%
FWA020015A-10A	15.0V	1.3A	1.6A	±5%	88.4%
FWA020018A-10A	18.0V	1.1A	1.3A	±5%	88.1%
FWA020024A-10A	24.0V	0.8A	1.0A	±5%	87.8%

#### Notes

- 1) Maximum peak load (21W) lasting 500ms with a maximum 10% duty cycle.
- 2) Includes initial setting, line regulation, load regulation, and thermal drift.
- 3) Typical at 115VAC

INPUT	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<1.0A rms
Inrush Current	<60A at 230VAC cold start
Zero Load Power Consumption	<0.1W
Earth Leakage Current (Typical)	<100µA @ 132VAC @ 60Hz <150µA @ 264VAC @ 60Hz

OUTPUT	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<2.0s
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)

#### Notes

\*\*Ripple and noise measured with 20MHz bandwidth; 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.

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General		Environmental		EMC & Safety	
Efficiency	Avg. Efficiency 90.7% @ 115VAC; 89.8% @ 230VAC	Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)	Emissions	FCC class B, CISPR22 class B EN6100-3-2, 3
MTBF	min. 200,000 hours demonstrated	Storage Temperature	-40°C to +85°C	Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Size	3.53" (89.6mm) x 1.92" (48.4mm) x 1.00" (25.2mm)	Relative Humidity	5-95%, non-condensing	Certified by TUV to the following:	cTUVus
Weight	0.3 lbs (0.16 Kg)	Cooling	Natural Convection		UL 606950-1
Power Density	2.95W/in <sup>3</sup>	Vibration	All units production tested to 19.6m/s <sup>2</sup>		CAN/CSA-22.2 No.950
		Altitude (Operating)	Rated to 5000M		CB per IEC60950-1 2nd edition
					CE marked to LVD directive and RoHS II directive

Input Configuration		Output Configuration		Output Pin Assignments	
Standard Input Cable	Not Provided	Standard Output Cable	4ft	Center	+V1
Connection on Power Supply Body	IEC 320 C6 Receptacle	Cord Size	2x16awg zip	Outside	Return
		Connector (PSU side)	Switchcraft 760 or equivalent		
		Mating Connector	Switchcraft 760 or equivalent		

