



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 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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ITE Desktop Power Supply



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		

