



ELPAC FWC080024A CLASS I

80 Watt
ITE Desktop Power Supply

- Safety Approval - IEC62368-1 Class I
- High Efficiency: Level VI
- High Power Density 3.27W/in³
- Lifetime Expectation >5 years
- Hold-up Time >25ms at full load
- Grounded Output
- 5-Year Limited Warranty



INPUT	
Input Voltage	85 – 264VAC (100 – 240VAC Nominal)
Input Frequency	47 – 63Hz (50-60Hz Rated)
Input Current	1.5-0.6 Arms
Inrush Current	<60A at 230VAC cold start
Power Factor	>0.97
Zero Load Power	<0.15W
Earth Leakage Current (Typical)	N/A
Touch Leakage Current	<0.25mA@264Vac 60Hz (typical) --- Accessible parts and circuits not connected to PE

OUTPUT	
Output Voltage	See Table
Total Regulation	±5%
Minimum Load	No minimum load required
Start-Up Delay	<1.5s
Hold-Up Time	>25ms at any input voltage of full load
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110 – 135%
Over Temperature Protection	Active - Recoverable;
Over Current Protection	115 – 175%
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.

Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
FWC080024A-11A	24.0V	3.33A	4.0A	±5%	90%

Notes

1) Maximum peak load (96W) 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).

4) AC cord not included-AC cord part number 67400-185-EB can be ordered separately.

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General

Efficiency	Avg. Efficiency 89.0% @ 115VAC; Avg. Efficiency 90.0% @ 230VAC;
MTBF	min. 200,000 hours, SR-332 issue 3
Size	7.09" (180.2mm) x 2.27" (57.5mm) x 1.52" (38.6mm)
Weight	1.52 LBS (0.69 Kg)
Power Density	3.27W/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	Unites meet MIL-STD-810G Figure 514.6C-1 category 4

EMC & Safety

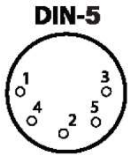
Emissions	FCC class B, EN55032:2015+A11:2020 EN 55035:2017+A11:2020
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Certified by TUV to the following:	cTUVus UL62368-1:2014
	CAN/CSA-22.2 No.62368-1-14
	CB per IEC 62368-1:2018
	Level VI /CCC CE marked to LVD and CE EMC

Input & Output Configuration

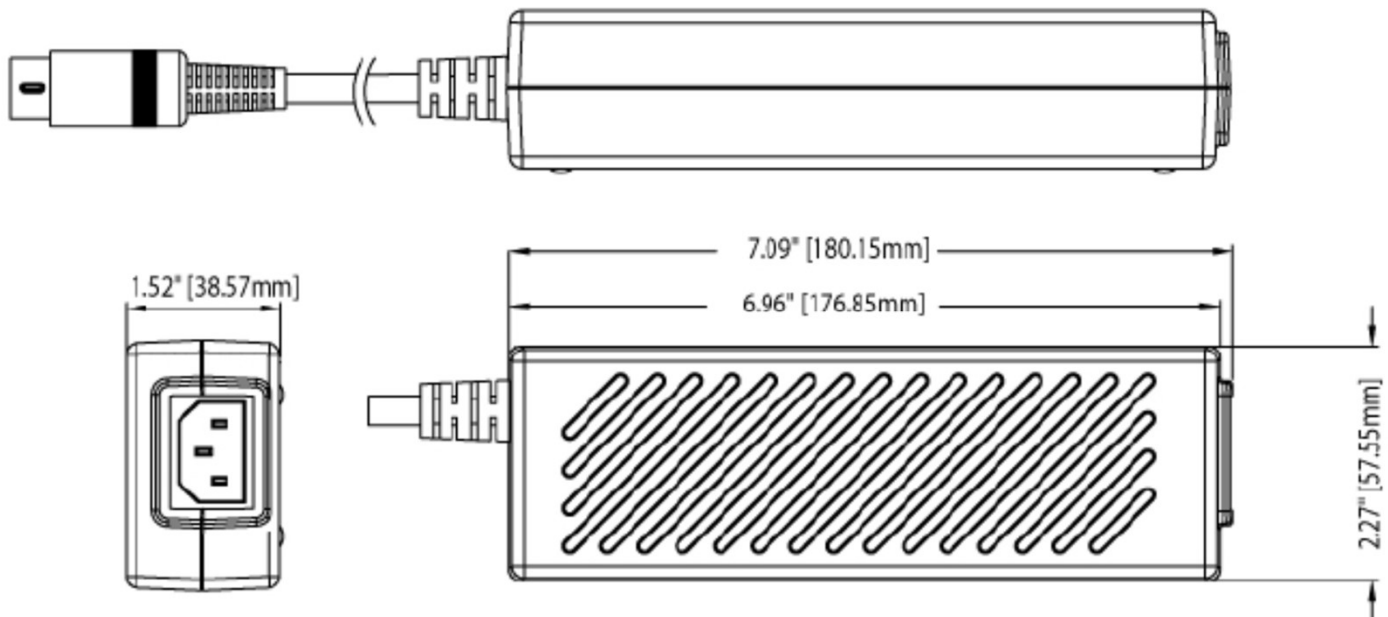
Standard Input Cable	Not Provided Separately (P/N 67400-185-EB)
Connection on Power Supply Body	IEC 320 C14 Receptacle
Standard Output Cable	6ft
Output Cable Cord Size	4x18awg
Output Cable Connector	Swithcraft DIN-5, P/N 05GM5MX
Output Cable Mating Connector	Swithcraft 57GB5FX (5 pin) or equivalent

Output Pin Assignments

Pin 1	Return
Pin 2	Return
Pin 3	+V1
Pin 4	Return
Pin 5	+V1



Mechanical Drawing



FWC080024A-Class I-DWG