



ELPAC FWC100 SERIES CLASS I

100 Watt
ITE Desktop Power Supply

- Safety Approval - IEC62368-1 Class I
- High Efficiency: Level VI
- High Power Density 4.2W/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
FWC100012A-12A	12.0V	8.3A	10.0A	±5%	89%
FWC100015A-12A	15.0V	6.7A	8.0A	±5%	90%
FWC100018A-11A	18.0V	5.55A	6.7A	±5%	90%
FWC100024A-11A	24.0V	4.16A	5.0A	±5%	90%
FWC100048A-11A	48.0V	2.1A	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).

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

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inventus™
POWER

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	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	Unites meet MIL-STD-810G Figure 514.6C-1 category 4

EMC & Safety

Emissions	FCC class B, EN55035:2017 EN55032:2015+A11:2020
Immunity	EN61000-4-2, -3, -4, -5, -6, -11
Certified by TUV to the following:	cTUVus
	UL62368-1:2014
	CAN/CSA-22.2 No.62368-1-14
	CB per IEC 62368-1:2014
	Level VI /GS /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	4ft for 12V 6ft for 15V, 18V, 24V, 48V
Output Cable Cord Size	4x18awg (12V, 15V, 18V, 24V) 2x16awg (48V)
Output Cable Connector	Switcraft DIN-8, P/N 15BL8M Switcraft DIN-5, P/N 05GM5MX
Output Cable Mating Connector	Switcraft 62GB8FX(8 pin) or equivalent(12V, 15V) Switcraft 57GB5FX (5 pin) or equivalent(18V, 24V, 48V)

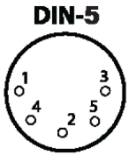
Output Pin Assignments

Pin 1	+V1
Pin 2	+V1
Pin 3	Return
Pin 4	+V1
Pin 5	Return
Pin 6	+V1
Pin 7	Return
Pin 8	Return

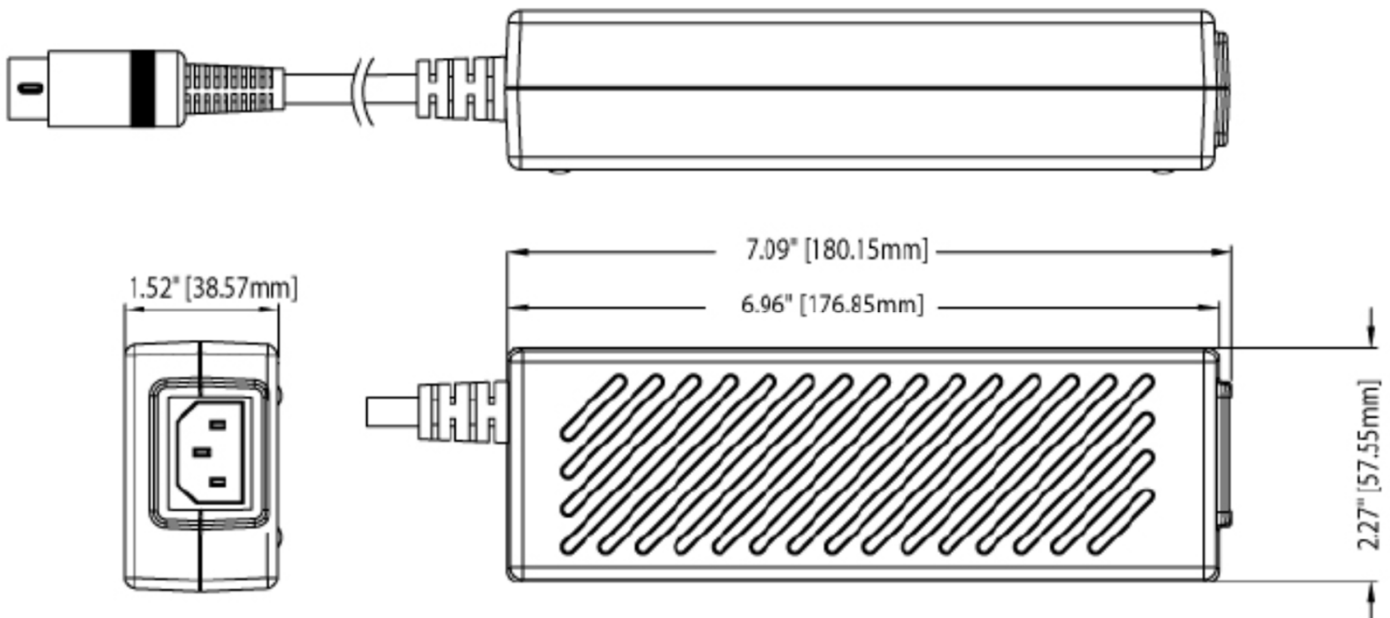


Output Pin Assignments

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



Mechanical Drawing



FWC100-Class I-DWG

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[FWC100024A-11A](#) [FWC100018A-11A](#) [FWC100048A-11A](#) [FWC100012A-12A](#) [FWC100015A-12A](#)