



## FWC100 Series

### 100 Watt ITE Desktop Power Supply

- High Efficiency: Level V
- High Power Density 4.2W/in3
- Lifetime Expectation >5 years
- Hold-up Time >48ms at full load
- Power Factor Correction
- EISA and CEC Compliant
- LED Indicator
- Class I

| Elpac Part Number | Output Voltage | Output Current | Peak Current <sup>1</sup> | Total Regulation <sup>2</sup> | Typical Efficiency <sup>3</sup> |
|-------------------|----------------|----------------|---------------------------|-------------------------------|---------------------------------|
| FWC100012A-12B    | 12.0V          | 8.3A           | 10.0A                     | ±5%                           | 88%                             |
| FWC100015A-12B    | 15.0V          | 6.6A           | 8.0A                      | ±5%                           | 88%                             |
| FWC100018A-11B    | 18.0V          | 5.5A           | 6.7A                      | ±5%                           | 88%                             |
| FWC100024A-11B    | 24.0V          | 4.1A           | 5.0A                      | ±5%                           | 89%                             |
| FWC100048A-11B    | 48.0V          | 2.0A           | 2.5A                      | ±5%                           | 90%                             |

#### 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               | <1.0A rms  |
| Inrush Current              | <37A at 230VAC cold start                        |
| Power Factor                | >0.97  |
| Zero Load Power Consumption | <0.5W  |
| Touch Leakage Current       | <150µA @ 132VAC @ 60Hz<br><200µA @ 264VAC @ 60Hz |

| Output         |           |
|----------------|-----------|
| Output Voltage | See Table |

#### Notes

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

|                             |  |
|-----------------------------|--|
| Total Regulation            | +/-5%  |
| Minimum Load                | No minimum load required                             |
| Start-Up Delay              | ~1s  |
| Hold-Up Time                | >48ms 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)                 |

### General

|               |   |
|---------------|---|
| Efficiency    | Avg Efficiency 88.8% @ 115VAC; 89.8% @ 230VAC     |
| MTBF          | min. 200,000 hours demonstrated                   |
| 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 <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, CISPR22 class B EN61000-3-2, -3  |
| Immunity                           | EN61000-4-2, -3, -4, -5, -6, -8, -11  |
| Certified by TUV to the following: | cTUVus<br>UL 60950-1<br>CAN/CSA-22.2 No.60950-1<br>CB per IEC60950-1<br>CE marked to LVD & EMCC100 — ICCNexergy |



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