



## FWC30 Series 30W ITE Desktop Power Supply

- High Efficiency: Level V
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >12ms at full load
- Safety Approval - EN60950-1 Class I
- CEC Compliant

| Elpac Part Number | Output Voltage | Output Current | Peak Current <sup>1</sup> | Total Regulation <sup>2</sup> | Typical Efficiency <sup>3</sup> |
|-------------------|----------------|----------------|---------------------------|-------------------------------|---------------------------------|
| FWC3009-760F      | 9.0V           | 3.3A           | 3.9A                      | ±5%                           | 81%                             |
| FWC3012-760F      | 12.0V          | 2.5A           | 3.0A                      | ±5%                           | 83%                             |
| FWC3015-760F      | 15.0V          | 2.0A           | 2.4A                      | ±5%                           | 84%                             |
| FWC3018-760F      | 18.0V          | 1.7A           | 2.0A                      | ±5%                           | 85%                             |
| FWC3024-760F      | 24.0V          | 1.3A           | 1.5A                      | ±5%                           | 86%                             |

### Notes

1 Maximum peak load (36W) 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                        |
| Zero Load Power Consumption | <0.3W  |
| Touch Leakage Current       | <250µA @ 132VAC @ 60Hz<br><400µA @ 264VAC @ 60Hz |

### Output

|                  |                          |
|------------------|--------------------------|
| Output Voltage   | See Table                |
| Total Regulation | +/-5%                    |
| Minimum Load     | No minimum load required |
| Start-Up Delay   | <250ms                   |

|                             |  |
|-----------------------------|--|
| Hold-Up Time                | >12ms 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)                 |

## Notes

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



### General

|            |   |
|------------|---|
| Efficiency | Avg Efficiency 84.5% @ 115VAC; 83.4% @ 230VAC     |
| MTBF       | min. 100,000 hours demonstrated                   |
| Size       | 4.25" (108.0mm) x 2.50" (64.5mm) x 1.30" (33.0mm) |
| Weight     | 0.60 lbs (0.27 kg)                                |

### 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:   | cTUVus                                       |
|  | UL 60950-1                                   |
|  | CAN/CSA-22.2 No.60950-1                      |
|   | CB per IEC60950-1                            |
|   | CE marked to LVD & EMC Directive             |

### Input Configuration

|                      |   |
|----------------------|---|
| Standard Input Cable | 6 ft cable with US standard (Nema 5-15) 3 prong connector |
|----------------------|---|

Connection on Power Supply Body IEC 320 C14 Receptacle

**Output Configuration**

|                       |                                |
|-----------------------|--------------------------------|
| Standard Output Cable | 6 ft.                          |
| Cord Size             | 2x16awg zip                    |
| Connector (PSU side)  | Switchcraft 760 or equivalent  |
| Mating Connector      | Switchcraft 712A or equivalent |

**Output Pin Assignments**

