



## FW18 Series

### 18W Power Supply

FW18 Is Not Recommended For New Designs.  
Please Use **FWA020 Class I** As A Replacement

FW18 Series is being discontinued. A last time purchase will be accepted until January 30, 2015.  
No replacement available for FW1818-760F.

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| Elpac Part Number | Output Voltage | Output Current | Peak Current <sup>1</sup> | Total Regulation <sup>2</sup> | Typical Efficiency <sup>3</sup> |
|-------------------|----------------|----------------|---------------------------|-------------------------------|---------------------------------|
| FW1805-760F       | 5.0V           | 3.0A           | 4.3A                      | ±5%                           | 82%                             |
| FW1812-760F       | 12.0V          | 1.5A           | 1.8A                      | ±5%                           | 83%                             |
| FW1815-760F       | 15.0V          | 1.2A           | 1.4A                      | ±5%                           | 84%                             |
| FW1818-760F       | 18.0V          | 1.0A           | 1.2A                      | ±5%                           | 85%                             |
| FW1824-760F       | 24.0V          | 0.8A           | 0.9A                      | ±5%                           | 86%                             |

#### Notes

<sup>1</sup> Maximum peak load (21W) lasting 500ms with a maximum 10% duty cycle.

<sup>2</sup> Includes initial setting, line regulation, load regulation, and thermal drift.

<sup>3</sup> Typical at 115VAC (including output cable).

#### Input

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| Input Voltage               | 85 - 264VAC 100 - 240VAC Nominal                 |
| Input Frequency             | 47 - 63Hz                                        |
| Input Current               | <0.5A rms                                        |
| Inrush Current              | <37A at 230VAC cold start                        |
| Zero Load Power Consumption | <0.5W                                            |
| Touch Leakage Current       | <200µA @ 132VAC @ 60Hz<br><350µA @ 264VAC @ 60Hz |

#### Output

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Output Voltage              | See Table                                            |
| Total Regulation            | +/-5%                                                |
| Minimum Load                | No minimum load required                             |
| Start-Up Delay              | <1s                                                  |
| 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 83.5% @ 115VAC; 81.6% @ 230VAC    |
| MTBF       | min. 100,000 hours demonstrated                  |
| Size       | 3.35" (85.0mm) x 1.97" (50.0mm) x 1.30" (33.0mm) |
| Weight     | 0.70 lbs (0.32 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, CISPR11 class B EN61000-3-2, -3 |
| Immunity  | EN61000-4-2, -3, -4, -5, -6, -8, -11         |

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|                                                                                                                                                                                    |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Certified by:<br>  |                                    |
|                                                                                                                                                                                    | cTUVus                             |
|                                                                                                                                                                                    | UL 60950-1                         |
|                                                                                                                                                                                    | CAN/CSA-22.2 No.950                |
|                                                                                                                                                                                    | CB per IEC60950-1                  |
|                                                                                                                                                                                    | CE marked to LVD and EMC Directive |

