



FWC18 Series

18W ITE Desktop Power Supply

FWC18 Is Not Recommended For New Designs. Not Level VI Compliant. Not for Consumer / Household use for units built after February, 2016. Please Use FWA020 Class II or FWA020 Class I As A Replacement

- 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 ¹ | Total Regulation ² | Typical Efficiency ³ |
|-------------------|----------------|----------------|---------------------------|-------------------------------|---------------------------------|
| FWC1805-760F | 5.0V | 3.6A | 4.3A | ±5% | 82% |
| FWC1812-760F | 12.0V | 1.5A | 1.8A | ±5% | 83% |
| FWC1818-760F | 18.0V | 1.0A | 1.2A | ±5% | 85% |
| FWC1824-760F | 24.0V | 0.8A | 0.9A | ±5% | 86% |

Notes

1 Maximum peak load (21W) 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 | <0.5A rms |
| Inrush Current | <37A at 230VAC cold start |
| Zero Load Power Consumption | <0.5W |
| Touch Leakage Current | <200 μ A @ 132VAC @ 60Hz <350 μ A @ 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; 10 μ F tantalum capacitor in parallel with a 0.1 μ F 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 | 0.45 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 ² |

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.950 |
| | 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 |
| Connector (PSU side) | Switchcraft 760 or equivalent |
| Mating Connector | Switchcraft 712A or equivalent |

Output Pin Assignments

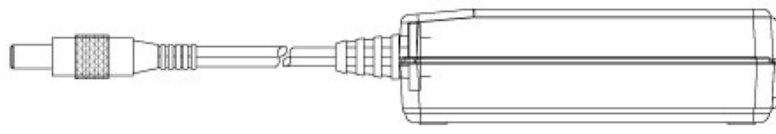


Center

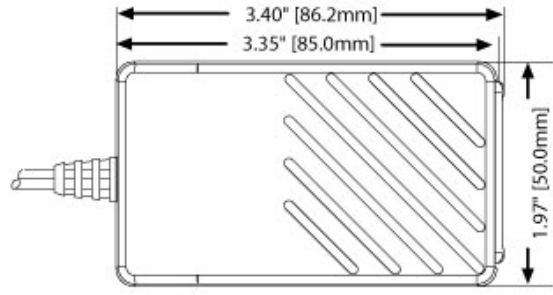
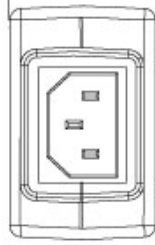
+v1

Outside

Return



1.30" [33.0mm]



3.40" [86.2mm]

3.35" [85.0mm]

1.97" [50.0mm]

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