



FWC50 Series

50W ITE Desktop Power Supply

FWC50 Is Not Recommended For New Designs. Not Level VI Compliant. Not for Consumer / Household use for units built after February, 2016. Please Use <u>FWE050 Class II</u> or <u>FWE050 Class I</u> As A Replacement

- High Efficiency
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >14ms 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
FWC5012-760F	12.0V	4.2A	5.0A	±5%	83%
FWC5018-760F	18.0V	2.8A	3.3A	±5%	86%
FWC5024-760F	24.0V	2.1A	2.5A	±5%	87%

Notes

¹ Maximum peak load (60W) 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 <200µA @ 132VAC @ 60Hz

<300µA @ 264VAC @ 60Hz

Output

Output Voltage See Table

Total Regulation +/-5%

Minimum Load No minimum load required

Start-Up Delay <250ms

Hold-Up Time >14ms 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 Protetion 120 - 180%

Short Circuit Protection shutdown, auto-restart (hiccup mode)

Notes

General

Efficiency Avg Efficiency 86.7% @ 115VAC; 86.9% @ 230VAC

MTBF min. 100,000 hours demonstrated

Size 05.00" (127.0mm) x 3.00" (76.2mm) x 1.30" (33.0mm)

Weight 0.75 lbs (0.34 kg)

 $^{^{\}star}$ Ripple and noise measured with 20MHz bandwidth; 10 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor.

Environmental

Operating Temperature $0-60^{\circ}\text{C}$ (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/s2

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

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



