



FWA065 Series

65 Watt ITE Desktop Power Supply

- High Efficiency: Level VI
- High Power Density 4.9W/in³
- Lifetime Expectation >5 years
- Hold-up Time >25ms at full load
- Safety Approval - EN60950-1 Class I
- EISA, CEC Compliant

Elpac Part Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
FWA065012A-11A	12.0V	6.0A	7.2A	±5%	88%
FWA065015A-11A	15.0V	4.8A	5.7A	±5%	89%
FWA065024A-11A	24.0V	3.0A	3.6A	±5%	91%

Notes

1) 2) Maximum peak load (86W) 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	<1.5A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.20W
Touch Leakage Current	<80µA @ 132VAC @ 60Hz <100µA @ 264VAC @ 60Hz

Output

Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<750ms
Hold-Up Time	>25ms 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 88.2% @ 115VAC; 89.7% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.02" (127.6mm) x 2.20" (55.9mm) x 1.37" (34.8mm)
Weight	1.3 lbs (0.58 kg)
Power Density	4.9W/in ³

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 TUV to the following:



cTUVus

UL 60950-1

CAN/CSA-22.2 No.60950-1

CB per IEC60950-1

CE marked to LVD & EMC

Input Configuration

Standard Input Cable Not Provided

Connection on Power Supply Body IEC 320 C14 Receptacle

Output Configuration (12V, 15V, 24V)

Standard Output Cable 6 ft.

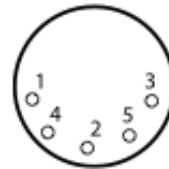
Cord Size 2x16awg

Connector (PSU side) Switchcraft DIN-5, P/N 05GM5MX (male pins)

Mating Connector Switchcraft 57GB5FX or equivalent

Output Pin Assignments

DIN-5



Pin 1 Return

Pin 2 Return

Pin 3 +V1

Pin 4 Return

Pin 5 +V1

