FWA065 Series

65 Watt ITE Desktop Power Supply

- High Efficiency: Level V
- 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

Overview

Over the later part of 2015, we will be changing the way we sell ITE power supplies thru distribution to no longer include AC cords with the units. During this time of transition you find both versions available for sale. They can be distinguished by the part number, parts ending in -11B or -12B will include a cord in the box, parts ending in -11A or -12A will not include a cord. If you distributor has not already made a recommendation on a cord, please do not hesitate to ask us for assistance.

Elpac Part Number	Output Voltage	Output Current	Peak Current[1]	Total Regulation[2]	Typical Efficiency[3]
FWA065009A-11B	9.0V	8.0A	9.6A	±5%	85%
FWA065009A-11A	9.0V	8.0A	9.6A	±5%	85%
FWA065012A-11B	12.0V	6.0A	7.2A	±5%	88%
FWA065012A-11A	12.0V	6.0A	7.2A	±5%	88%
FWA065015A-11B	15.0V	4.8A	5.7A	±5%	89%
FWA065015A-11A	15.0V	4.8A	5.7A	±5%	89%
FWA065024A-11B	24.0V	3.0A	3.6A	±5%	91%
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	<0.5W
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 Protetion	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/in3

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/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

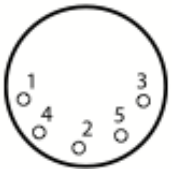
Input Configuration

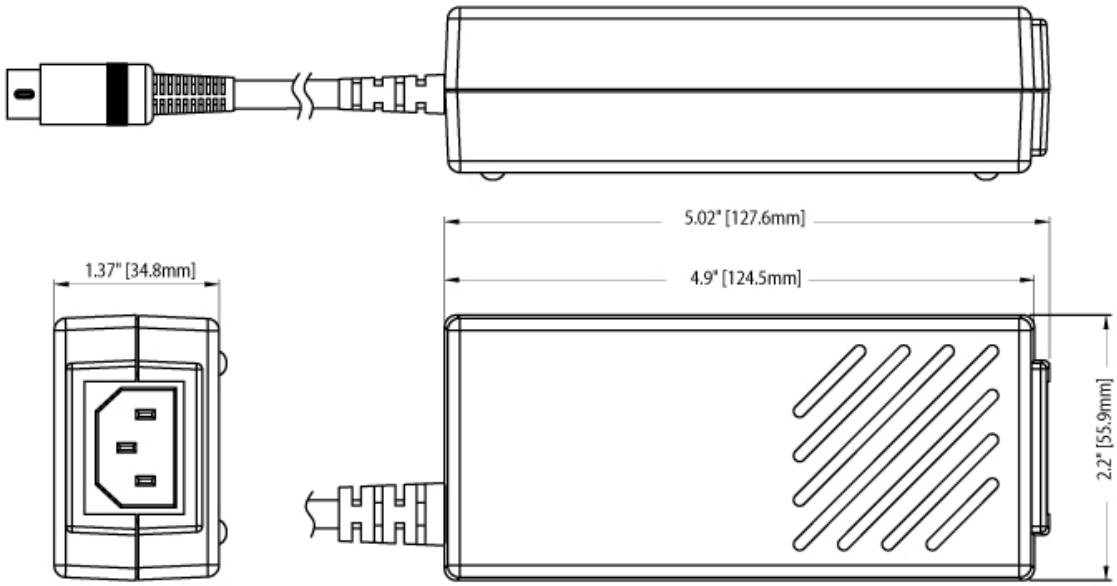
Standard Input Cable	Not Provided
Connection on Power Supply Body	IEC 320 C14 Receptacle

Output Configuration (9V)

Standard Output Cable	4 ft.
Cord Size	2x16awg
Connector (PSU side)	Switchcraft DIN-5, P/N 05GM5MX (male pins)
Mating Connector	Switchcraft 57GB5FX (5 pin) or equivalent

Output Configuration (12V, 18V, 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


5.02" [127.6mm]
4.9" [124.5mm]
1.37" [34.8mm]
2.2" [55.9mm]