

## FWA065 Series

65 Watts **Switch Mode Power Supply** 

# >E Elpac Power Systems

### TECHNICAL SUPPORT

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**5-YEAR LIMITED WARRANTY\*** 

- High Efficiency: Level V
- High Power Density 4.9W/in<sup>3</sup>
- Lifetime Expectation >5 years
- Hold-up Time >25ms at full load
- Safety Approval EN60950-1 Class I
- EISA Compliant
- CEC Compliant

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 Current /	<80μA @ 132VAC @ 60Hz
Leakage Current	<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)
Over Temperature Protection  Over Current Protection	Active - Recoverable; plus Passive - Non Recoverable 120 – 180% Shutdown, auto-restart

<sup>\*</sup>visit www.iccus.com for complete details \*\*Ripple and noise measured with 20MHz bandwidth; 10μF tantalum capacitor in parallel with a 0.1μF ceramic capacitor.









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65 Watts **Switch Mode Power Supply** 

Model Number <sup>1</sup>	Output Voltage	Output Current	Peak Current <sup>2</sup>	Total Regulation <sup>3</sup>	Typical Efficiency <sup>4</sup>
FWA065009A-11B	9.0V	8.0A	9.6A	±5%	85%
FWA065012A-11B	12.0V	6.0A	7.2A	±5%	88%
FWA065015A-11B	15.0V	4.8A	5.7A	±5%	89%
FWA065024A-11B	24.0V	3.0A	3.6A	±5%	91%

- 1) All models ship standard with US version input cable.
- 2) Maximum peak load (86W) lasting 500ms with a maximum 10% duty cycle.
- 3) Includes initial setting, line regulation, load regulation, and thermal drift. 4) Typical at 115VAC (including output cable).

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 <sup>3</sup>

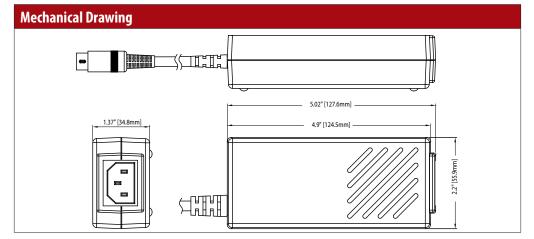
Environmental	
Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s <sup>2</sup>

EMC & Safety	
Emissions	FCC class B, CISPR22 class B EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
	cTUVus
Certified by TUV to the following:	UL 60950-1
	CAN/CSA-22.2 No.60950-1
	CB per IEC60950-1
C Mamerica US	CE marked to LVD and EMC

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 Confi	guration
Standard Output Cable	4 ft for 9V 6ft for 12V, 18V & 24V
Connector (PSU side)	Switchcraft DIN-5, P/N 05GM5M (male pins)
Mating Connector	Switchcraft 57GB5F or equivalent

Output Pin A	ssignmen	ts
Pin 1	Return	DIN-5
Pin 2	Return	
Pin 3	+V1	$\begin{pmatrix} 1 & 3 \end{pmatrix}$
Pin 4	Return	
Pin 5	+V1	



Ordering Options Available
Floating Output
Ferrite Cores
Custom Imprinting
Special Packaging
Special Labeling
Output Cord Lengths
Overmolding

