

FW18 Series 18 Watts Switch Mode Power Supply

-)E Elpac Power Systems ... Higher Efficiency, Higher Power Density, Uncompromised Reliability



- High Efficiency
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >20ms at full load
- Safety Approval EN60950-1 Class I
- ENERGY STAR Level V
- RoHS Compliant

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1s
Hold-Up Time	>20ms 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

RoHS

*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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TECHNICAL SUPPORT

WORLDWIDE 1-888-357-2280 saleselpac@iccus.com www.iccus.com

EUROPE +44.1383.432920 saleseurope@iccus.com

ENERGY STAR PARTNER

As a Global Supplier of Power Supplies, we are committed to meeting energy efficiency standards around the world. That is why we have partnered with the ENERGY STAR® Program and engineer our Elpac Power Systems[™] to meet strict energy-efficiency guidelines established by the EPA and the US Department of Energy (DOE). The Energy Star program has developed International partnerships with countries and organizations in major global markets. Those participating in the program include Australia, Canada, European Union, European Free Trade Association, Japan, New Zealand, and Taiwan.

Furthering our International commitment, we have signed the EU Code of Conduct on Efficiency of External Power Supplies. Our Elpac Power Systems[™] FW18 series meets the efficiency standards of the International ENERGY STAR[®] program and the EU Code of Conduct.



5-YEAR LIMITED WARRANTY*

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 Current/	<200µA @ 132VAC @ 60Hz
Leakage Current	<350µA @ 264VAC @ 60Hz



Model Number	Output Voltage	Output Current	Peak Current ²	Total Regulation ³	Typical Efficiency ⁴
FW1805-760F	5.0V	3.6A	4.3A	±5%	82%
FW1812-760F	12.0V	1.5A	1.8A	±5%	83%
FW1815-760F	15.0V	1.2A	1.4A	±5%	84%
FW1818-760F 18.0V	1.0A	1.2A	±5%	85%	
FW1824-760F	24.0V	0.8A	0.9A	±5%	86%

Notes

- All models ship standard with US version input cable.
 Maximum peak load (21W) 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 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	0.70 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	
	cTUVus	
Certified by:	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	6ft	
Connector (PSU side)	Switchcraft 760 or equivalent	
Mating Connector	Switchcraft 712A or equivalent	



Ordering Options Available (Contact Factory)

Output Pin Assignments

+V1

Return

Rtn

Center

Outside

Without input cable

Floating output

