



FWA180 Series

220 Watts ITE Desktop Power Supply

- High Efficiency
- High Power Density 5.9W/in³
- 5-Year Limited Warranty
- LED Status Indicator
- IPX1 Rated
- Hold-up Time > 25ms at full load
- ITE Approval - EN609501-1 Class I
- Level V, EISA, EuP Directive Compliant
- CEC Compliant

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
FWA180012A-13B	12.0V	15.0A	18.0A	±5%	89%
FWA180015A-13B	15.0V	12.0A	14.4A	±5%	89%
FWA180018A-13B	18.0V	10.0A	12.0A	±5%	90%
FWA180024A-12B	24.0V	7.5A	9.0A	±5%	90%
FWA180028A-12B	28.0V	6.4A	7.7A	±5%	90%
FWA180032A-12B	32.0V	5.6A	6.7A	±5%	91%
FWA180048A-11B	48.0V	3.75A	4.5A	±5%	91%

Input

Input Voltage	85 - 264VAC; 100 - 240VAC Nominal
Input Frequency	47 - 63Hz
Input Current	<3A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power Consumption	<0.5W
Earth Leakage Current (Typical)	<250µA @ 132VAC @ 60Hz (typical) <300µA @ 264VAC @ 60Hz (typical)

Output

Output Voltage	See Table
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Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1.5s
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	105 - 110%
Short Circuit Protection	shutdown, auto-restart (hiccup mode)

General

Efficiency	Avg. Efficiency 90.5@ 115VAC; 92.5@230VAC
MTBF	min 200,000 hours demonstrated
Size	8.2" (208mm) x 2.9" (73mm) x 1.6" (39mm)
Weight	2.1 lbs (0.95kg)
Power Density	5.9 W/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 2nd edition
	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

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Output Configuration (12V - 18V)

Standard Output Cable	4 ft.
Cord Size	4x16awg
Connector (PSU side)	Molex 6 pin P/N 39-01-2065
Mating Connector	Molex 39-01-2061 or 26-01-3116

Output Configuration (12V - 18V)

Standard Output Cable	4 ft.
Cord Size	4x16awg
Connector (PSU side)	Molex 6 pin P/N 39-01-2065
Mating Connector	Molex 39-01-2061 or 26-01-3116

Output Configuration (12V - 18V)

Standard Output Cable	4 ft.
Cord Size	4x16awg
Connector (PSU side)	Molex 6 pin P/N 39-01-2065
Mating Connector	Molex 39-01-2061 or 26-01-3116

Output Configuration (24V - 32V)

Standard Output Cable	6 ft.
Cord Size	4x18awg

Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8MX (male pins)
Mating Connector	Switchcraft 62GB8FX (8 pin) or equivalent

Output Configuration (24V - 32V)

Standard Output Cable	6 ft.
Cord Size	4x18awg
Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8MX (male pins)
Mating Connector	Switchcraft 62GB8FX (8 pin) or equivalent

Output Configuration (24V - 32V)

Standard Output Cable	6 ft.
Cord Size	4x18awg
Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8MX (male pins)
Mating Connector	Switchcraft 62GB8FX (8 pin) or equivalent

Output Configuration (48V)

Standard Output Cable	6 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 (48V)

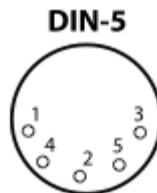
Standard Output Cable	6 ft.
Cord Size	2x16awg
Connector (PSU side)	Switchcraft DIN-5, P/N 05GM5MX (male pins)
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Output Configuration (48V)

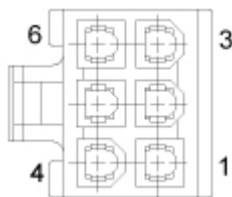
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Output Pin Assignments

Pin 1	+V1
Pin 2	+V1
Pin 3	Return
Pin 4	+V1
Pin 5	Return
Pin 6	+V1
Pin 7	Return
Pin 8	Return

Output Pin Assignments

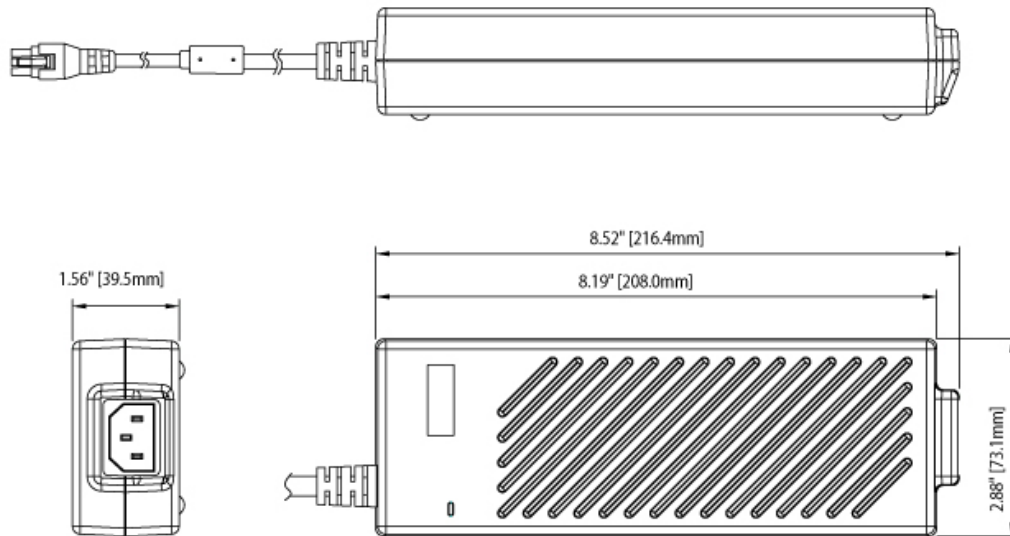
Pin 1	Return
Pin 2	Return
Pin 3	+V1
Pin 4	Return
Pin 5	+V1

Output Pin Assignments (12V-18V)

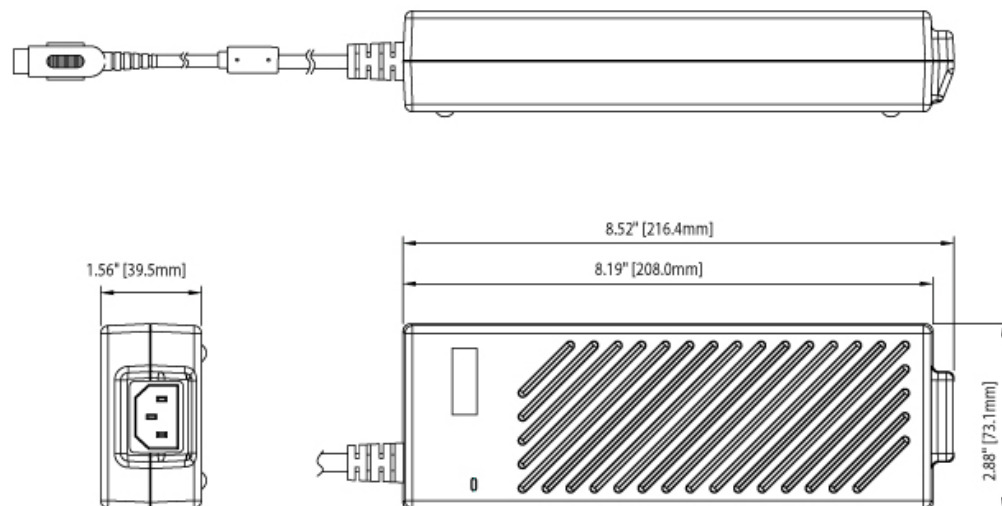
Pin 1	Return
Pin 2	Return
Pin 3	Shield

Pin 4	+V1
Pin 5	+V1
Pin 6	Not Used

12V Model



24V-48V Models



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