



**International
Components
Corporation**

TM

FTA040 Series

40 Watts
Switch Mode Power Supply

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™ FTA40 series meets the efficiency standards of the International ENERGY STAR® program and the EU Code of Conduct.

Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



5-YEAR LIMITED WARRANTY*

- High Efficiency
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >14ms at full load
- ENERGY STAR Level V
- EISA Compliant
- CEC Compliant
- Output Grounded
- Safety Approval - EN60950-1

Input	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<1.0A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.3W
Touch Current / Leakage Current	<60µA @ 132VAC @ 60Hz
	<80µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<250ms
Hold-Up Time	>14ms
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

*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.






Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
FTA040009A	9.0V	4.4A	5.3A	±5%	85%
FTA040012A	12.0V	3.3A	4.0A	±5%	87%
FTA040015A	15.0V	2.7A	3.2A	±5%	88%
FTA040024A	24.0V	1.7A	1.6A	±5%	87%

Notes

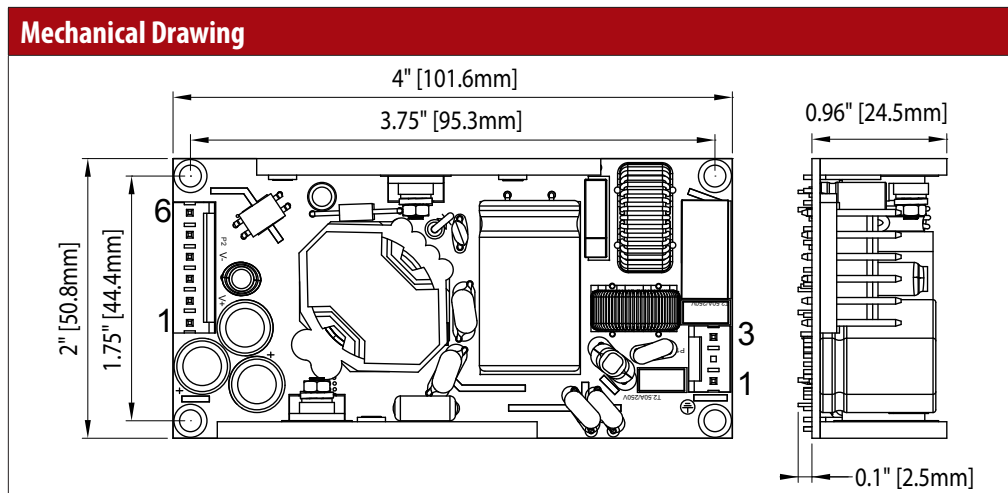
1) Maximum peak load (48W) lasting 500ms with a maximum 10% duty cycle.

2) Includes initial setting, line regulation, load regulation, and thermal drift.

3) Typical at 115VAC

General		Environmental		EMC & Safety	
Efficiency	Avg Efficiency 87.1% @ 115VAC; 87.1% @ 230VAC	Operating Temperature	0 – 70°C (Full load to 50°C, derate linearly to 50% load at 70°C)	Emissions	FCC class B, CISPR22 class B EN61000-3-2, -3
MTBF	min. 200,000 hours demonstrated	Storage Temperature	-40°C to +85°	Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Size	4.00" (101.6mm) x 2.00" (50.81mm) x 0.99" (25.2mm)	Relative Humidity	5-95%, non-condensing	Certified by TUV to the following: 	cTUVus
Weight	0.29 lbs (.13 kg)	Cooling	Natural Convection		UL 60950-1
Power Density	5.76W/in ³	Vibration	All units production tested to 19.6m/s ²		CAN/CSA-22.2 No.60950-1
					CB per IEC60950-1
					CE marked to LVD

Input Configuration		Output Configuration		Output Pin Assignments	
Standard Input Cable	Not provided	Standard Output Cable	Not provided	Pin 1	+V1
Connection on Power Supply Body	AMP 640445-3	Connector (PSU side)	AMP 640445-6	Pin 2	+V1
Mating Connector	AMP 640250-3 or Equivalent	Mating Connector	AMP 640250-6 or equivalent	Pin 3	Return
				Pin 4	Return
				Pin 5	No Connection
				Pin 6	No Connection



Input Pin Assignments	
Pin 1	AC Line
Pin 2	<not assembled>
Pin 3	AC Neutral

Ordering Options Available	
Cooling	
Floating Output	
Chassis Mount	
Cable Harness	
Load Share	
Cover	