

A photograph of a completed electronic circuit board, likely a power supply or amplifier. The board is green and populated with various components. A large silver transformer is mounted in the center, with a yellow label that reads "BATES 400". To the left of the transformer is a large yellow electrolytic capacitor. To the right is a large silver electrolytic capacitor. Several integrated circuits (ICs) are visible, including a black IC on the left and a silver IC on the right. The board is populated with numerous resistors, capacitors, and other electronic components. The overall appearance is that of a custom-built electronic device.

- ◆ Universal Input
- ◆ BF Class insulation & Level B emissions
- ◆ Overload and short circuit protection
- ◆ Compact size 2" x4" x1.18"



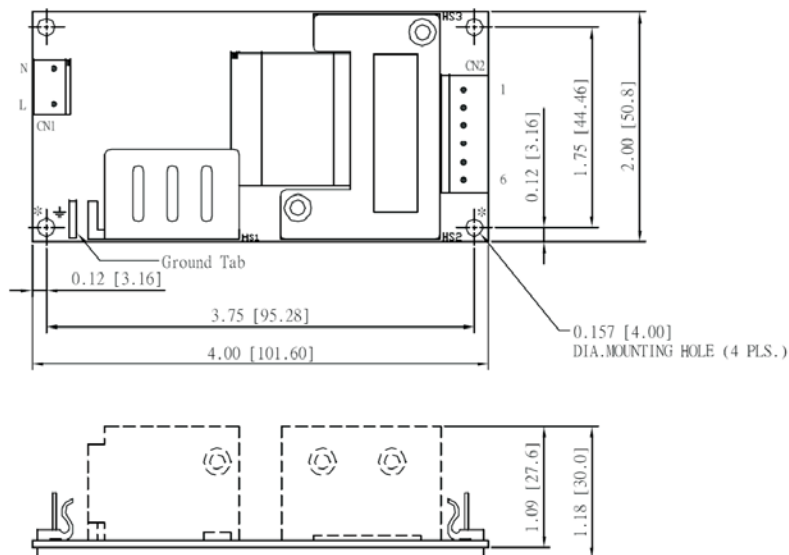
Input Voltage Range.....	90~264VAC
Input Current (rms).....	0.9A Max.
Efficiency.....	80-88% typical except FPM042-T031-3/5 at 75% typical
Earth leakage/Touch current.....	150uA/100uA max. @ 264VAC/63Hz
Operating Temperature.....	-10℃ ~ +70℃ (derated linearly from 100% load @ 50℃ to 50% load @ 70℃)
Storage Temperature	-40℃ ~ 85℃
Relative Humidity.....	5% to 95% non-condensing
Protections.....	OVP, OCP, Short Circuit Protection
Withstand Voltage.....	1/P-O/P: 5656VDC
Cooling	convection-cooled
Safety Standard	UL ES60601-1, CSA C22.2 No. 60601-1, CE
EMC Standard	EN55011, EN55022 Class B EN61000-3-2,-3, EN61000-4-2, 3, 4, 5, 6, 8, 11

Model Number	Output Voltage (VDC)	Output Current (A)	Total Regulator (%)	R-N Max. (mV)	Max. Watts
FPM042-S050	5.00	8.00	± 2	100	40W
FPM042-S120	12.0	3.50	± 2	120	42W
FPM042-S150	15.0	3.00	± 2	150	45W
FPM042-S240	24.0	2.00	± 2	240	48W
FPM042-S480	48.0	1.00	± 2	480	48W

Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor across the output.

Model Number	Output #1				Output #2				Output #3				Max. Output Power
	V1	Iomin	Iomax	Tol.	V2	Iomin	Iomax	Tol.	V3	Iomin	Iomax	Tol.	
FPM042-D023	+5V	0.5A	6.0A	±3%	+12V	0.1A	2.0A	±5%					40W
FPM042-D025	+5V	0.5A	6.0A	±3%	+24V	0.1A	1.0A	±5%					40W
FPM042-T031	+5V	0.5A	6.0A	±3%	+12V	0.1A	2.0A	±5%	-12V	0.0A	0.3A	±4%	40W
FPM042-T031-3	+3.3V	0.8A	6.0A	±3%	+15V	1.0A	2.0A	±5%	+12V	0.0A	0.3A	±4%	30W
FPM042-T031-5	+5V	0.5A	6.0A	±3%	+3.3V	0.0A	1.5A	±5%	+12V	0.0A	0.3A	±4%	30W
FPM042-T032	+5V	0.5A	6.0A	±3%	+15V	0.1A	1.5A	±5%	-15V	0.0A	0.3A	±4%	40W
FPM042-T039	+5V	0.5A	6.0A	±3%	+24V	0.1A	1.0A	±5%	-12V	0.0A	0.3A	±4%	40W

MECHANICAL DRAWING (Unit: mm)



OUTPUT CONNECTOR PIN CHART

PIN NO	SINGLE	DUAL	TRIPLE
1	+V1	V1	V1
2			
3		Common	Common
4	V1 Return	Return	Return
5	N.C.	N.C.	V3
6		V2	V2

CN1:Molex header 09-65-2038 or equivalent, mating with Molex housing 09-50-1031 or equivalent.
CN2:Molex header 09-65-2068 or equivalent, mating with Molex housing 09-50-1061 or equivalent.

- * Weight: 205g approx.
- * Tolerance: 0.02 [0.5] maximum
- * Dimensions in inches(mm)

1. Ground tab is 0.25 [6.35] x 0.032 [0.8] fast-on connector
2. To ensure compliance with level B emissions, connect the two " * " marked mounting holes with metallic standoffs to chassis.