TRI-MAG, Inc.
® your POWER Specialists

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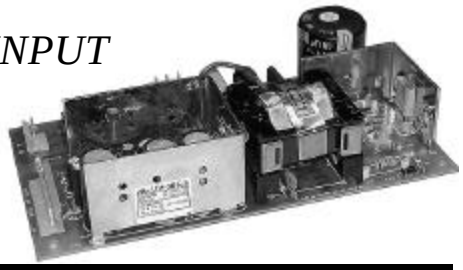
UV385 SERIES

85 Watt

UNIVERSAL INPUT



DESCRIPTION

Tri-Mag, Inc. UV385 Series is an 85 watt switchers feature universal input voltage (90-265VAC) and a wide input frequency range of 47Hz to 440Hz.

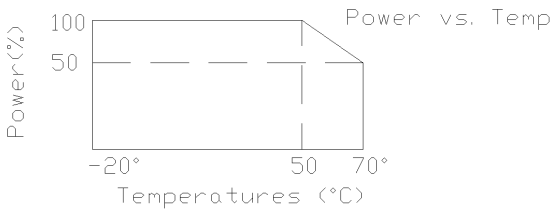
This series of switchers offers up to four outputs with a maximum 85 watts of continuous output power. Input line filtering is provided to meet the basic requirements of EMI//RFI regulations. The technology of PWM flyback and high speed Mosfet design permits high efficiency and low minimum load requirements. This series is also equipped with thermal protection to prevent overheat damage due to overload or cooling problems.

FEATURES

- *90 TO 265VAC Universal Input*
- *Compact & Low Cost*
- *Overload Protection*
- *Overvoltage Protection*
- *Short Circuit Protection*
- *100% Hi-Pot Test*
- *100% Cycling On-Off Burn-In Test*
- *Built-in Line Filter to Meet FCC Class B*

APPLICATIONS

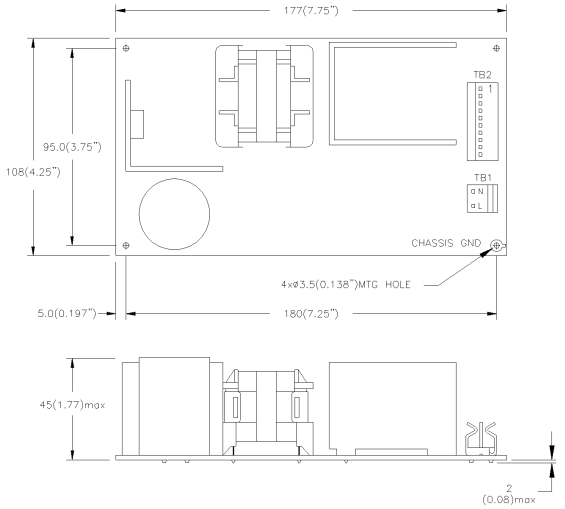
- *Portable computer Systems*
- *Plotters, Printers*
- *Color Monitors, CRT Terminals*
- *Robotics, Instrumentation*
- *General Purpose*
- *Medical Equipment*
- *Industrial and Process Control*



GENERAL SPECIFICATIONS

Input Voltage…….. 90VAC to 265VAC
or 120VDC to 350VDC
Input Frequency……..… 47Hz to 440Hz
Inrush Current (cold).……...….... 15A @ 115VAC
30A @ 230VAC
Operating Temperature……..…….. 0 to 50ºC
Linear Derating to 50% load @ 70°C
Storage Temperature……..……. - 20ºC to 85ºC
Cooling…….. Free Air Convection
Efficiency……..……. 75% Typical
Holdup Time……...…. 20ms at 115VAC
Overvoltage Type……..… Crowbar
Trip Point, 6.2V ± 0.4V
or Rated Output +2V
Overload Protection……...…….. Foldback
at 150% laod
Switching Frequency……..... >30KHz
Safety:
Designed in full compliance with…….……... UL 1950
CSA 22.2 #234
VDE EN60950
IEC 950

7.0 MECHANICAL SPECIFICATION



MECHANICAL SPECIFICATIONS:
Dimension Shown in Inch (mm)

PC Board Size:
7.75" x 4.25" x 1.77"
(197mm x 108mm x 45mm)

Weight:
500 Grams Approx.

MOUNTING HOLE:
7.25" x 3.75" (184mm x 95.3mm)

TB1: Molex P/N
AC Input Connector, 09-65-2038
Mating Connector, 09-50-3031
TB2: Molex P/N
DC Output Connector, 09-65-2188
Mating Connector, 09-50-3101

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UV385 SERIES 85 WATT— PIN ASSIGNMENT

Pin	1	2	3	4	5	6	7	8	9	10
UV385-1	+5V	+5V	+5V	COM	COM	COM	+12V	+12V	-12V	-5V
UV385-2	+5V	+5V	+5V	COM	COM	COM	+12V	+12V	-12V	N/C
UV385-3	+5V	+5V	+5V	COM	COM	COM	+12V	+12V	N/C	-5V
UV385-4	+5V	+5V	+5V	COM	COM	COM	+12V	+12V	N/C	N/C
UV385-5	+5V	+5V	+5V	COM	COM	COM	+15V	+15V	-15V	-N/C
UV385-6	+5V	+5V	+5V	+5V	+5V	COM	COM	COM	COM	COM
UV385-7	+12V	+12V	+12V	+12V	+12V	COM	COM	COM	COM	COM
UV385-8	+15V	+15V	+15V	+15V	+15V	COM	COM	COM	COM	COM
UV385-9	+24V	+24V	+24V	+24V	+24V	COM	COM	COM	COM	COM
UV385-10	+5V	+5V	+5V	COM	COM	COM	+24V	+24V	+15V	-15V

UV385 SERIES 85 WATT— OUTPUT SPECIFICATIONS

Model	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
		Min.	Rate	Peak			Line	Load
UV385-1	+5V	0.5	8.0	12.0	1%	50 mV	1%	1%
	+12V	0.2	3.0	5.0	5%	100 mV	3%	3%
	-12V	0	0.5	1.0	10%	100 mV	6%	6%
	-5V	0	0.5	1.0	10%	100 mV	6%	6%
UV385-2	+5V	0.5	8.0	12.0	1%	50 mV	1%	1%
	+12V	0.2	3.0	5.0	5%	100 mV	3%	3%
	-12V	0	0.5	1.0	10%	100 mV	6%	6%
UV385-3	+5V	0.5	8.0	12.0	1%	50 mV	1%	1%
	+12V	0.2	3.0	5.0	5%	100 mV	3%	3%
	-5V	0	0.5	1.0	10%	100 mV	6%	6%
UV385-4	+5V	0.5	8.5	12.0	1%	50 mV	1%	1%
	+12V	0.2	3.5	5.0	5%	100 mV	3%	3%
UV385-5	+5V	0.5	8.0	12.0	1%	50 mV	1%	1%
	+15V	0.1	1.5	1.7	5%	100 mV	5%	5%
	-15V	0.1	1.5	1.7	5%	100 mV	5%	5%
UV385-6	+5V	0.5	17.0	-	1%	100 mV	1%	1%
UV385-7	+12V	0.3	7.0	-	1%	100 mV	1%	1%
UV385-8	+15V	0.3	6.0	-	1%	100 mV	1%	1%
UV385-9	+24V	0.2	3.8	-	1%	150 mV	1%	1%
UV385-10	+5V	0.5	4.0	8.0	1%	50 mV	1%	1%
	+15V	0	0.5	1.0	10%	100 mV	8%	8%
	-15V	0	0.5	1.0	10%	100 mV	8%	8%
	+24V	0.1	2.0	3.0	5%	150 mV	5%	5%

Note: Contact factory for Safety Agency Approved status.

All specifications and prices subject to change without notice