



TRI-MAG, Inc.

® *your* POWER Specialists

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UV4100 SERIES

100 Watt

UNIVERSAL INPUT



DESCRIPTION

Tri-Mag, Inc. UV4100 Series is a 100 watt switchers feature universal input voltage (85-265VAC) and a wide input frequency range of 47Hz to 63Hz.

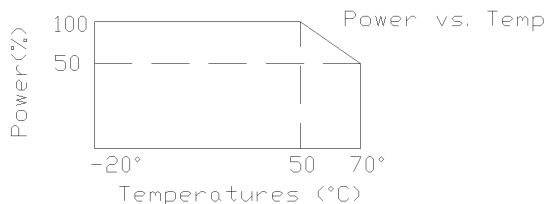
This series of switchers offers up to four outputs with a maximum 100 watts of continuous output power. Input line filtering is provided to meet the basic requirements of EMI/RFI regulations. The technology of PWM flyback and high speed Mosfet design permits high efficiency an low minimum load requirements. This series is also equipped with thermal protection to prevent overhear damage due to overload or cooling problems.

FEATURES

- 80 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

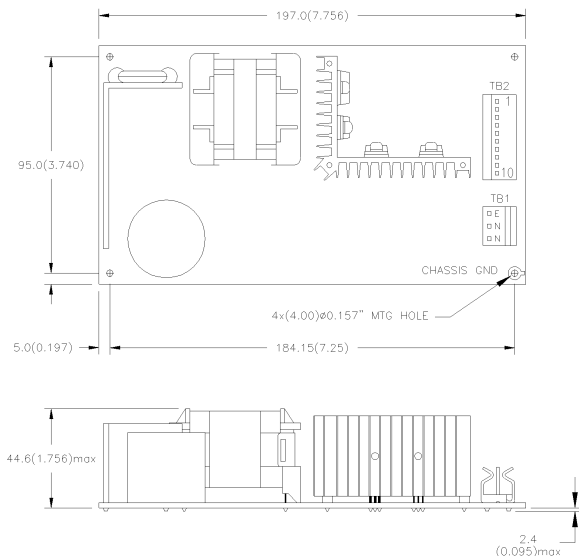
- Portable computer Systems
- Plotters, Printers
- Color Monitors, CRT Terminals
- Robotics, Instrumentation
- General Purpose
- Medical Equipment
- Industrial and Process Control



GENERAL SPECIFICATIONS

Input Voltage.....	85VAC to 265VAC or 120VDC to 350VDC
Input Frequency.....	47Hz to 63Hz
Inrush Current (cold).....	30A @ 115VAC 60A @ 230VAC
Operating Temperature.....	0 to 50°C Linear Derating to 50% load @ 70°C
Storage Temperature.....	- 20°C to 85°C
Cooling.....	Free Air Convection
Efficiency.....	70% Typical
Holdup Time.....	20ms at 115VAC
Overvoltage Type.....	Crowbar Trip Point, 6.2V ± 0.4V or Rated Output +2V
Overload Protection.....	Foldback at 150% load
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:
7.756" x 4.25" x 1.756"
(197mm x 108mm x 44.6mm)

Weight:
500 Gram Approx.

MOUNTING HOLE:

7.25" x 3.74" (184.15mm x 95.0mm)

TB1:

AC Input, Using Molex 5273-05A withdraw 2 pins or Equivalent

TB2:

DC Output, Using Molex 5273-12A or Equivalent



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UV4100 SERIES 100 WATT— PIN ASSIGNMENT

Pin	1	2	3	4	5	6	7	8	9	10	11	12
UV4100-1	+5V	+5V	+5V	COM	COM	COM	+12V	+12V	-12V	COM	-5V	PG
UV4100-2	+5V	+5V	+5V	COM	COM	COM	+12V	+12V	-12V	COM	N/C	PG
UV4100-3	+5V	+5V	+5V	COM	COM	COM	COM	COM	+12V	-5V	N/C	PG
UV4100-4	+12V	+12V	+12V	+12V	COM	COM	COM	COM	+5V	N/C		
UV4100-6	+5V	+5V	+5V	+5V	+5V	COM	COM	COM	COM	COM	N/C	PG
UV4100-7	+12V	+12V	+12V	+12V	COM	COM	COM	COM	N/C	N/C		
UV4100-8	+15V	+15V	+15V	+15V	+15V	COM	COM	COM	COM	COM		
UV4100-9	+24V	+24V	+24V	+24V	COM	COM	COM	COM	N/C	N/C		
UV4100-11	+5V	+5V	+5V	COM	COM	COM	+24V	+24V	+12V	COM	-12V	PG
UV4100-12	+24V	+24V	+24V	+24V	COM	COM	COM	COM	+5V	PG		
UV4100-14	+48V	+48V	+48V	+48V	+48V	COM	COM	COM	COM	COM		

UV4100 SERIES 100 WATT— OUTPUT SPECIFICATIONS

Model	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
		Min.	Rate	Peak			Line	Load
UV4100-1*	+5V	0	10.0	-	1%	50 mV	1%	1%
	+12V	0	3.5	8.0	5%	100 mV	1%	3%
	-12V	0	0.5	-	5%	100 mV	1%	3%
	-5V	0	0.5	-	5%	100 mV	1%	3%
UV4100-2*	+5V	0	10.0	-	1%	50 mV	1%	1%
	+12V	0	3.5	8.0	5%	100 mV	1%	3%
	-12V	0	0.5	-	5%	100 mV	1%	3%
UV4100-3	+5V	0	15.0	20.0	1%	50 mV	1%	1%
	+12V	0	2.0	3.0	5%	100 mV	2%	5%
	-5V	0	2.0	3.0	10%	100 mV	2%	5%
UV4100-4	+5V	0	1.0	-	5%	50 mV	1%	3%
	+12V	0	9.0	15.0	1%	100 mV	1%	3%
UV4100-6*	+5V	0	20.0	-	1%	50 mV	1%	1%
UV4100-7	+12V	0	9.0	-	1%	100 mV	1%	1%
UV4100-8	+15V	0	6.6	-	1%	100 mV	1%	1%
UV4100-9	+24V	0	4.4	-	1%	150 mV	1%	1%
UV4100-11*	+5V	0	5.0	8.0	1%	50 mV	1%	1%
	+12V	0	2.0	-	5%	120 mV	1%	5%
	-12V	0	0.3	-	5%	120 mV	1%	5%
	+24V	0	2.0	6.0	9%	240 mV	1%	5%
UV4100-12*	+5V	0	1.0	-	5%	50 mV	1%	3%
	+24V	0	4.5	8.0	1%	240 mV	1%	3%
UV4100-14	+48V	0	2.10	-	1%	300 mV	1%	1%

* Built-In Power Good Signal PG

Note: Contact factory for Safety Agency Approved status.

All specifications and prices subject to change without notice