



TRI-MAG, Inc.

® *your* POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291
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UV4110M SERIES

110 Watt

UNIVERSAL INPUT

For Medical Application



DESCRIPTION

Tri-Mag, Inc. UV4110M Series is a 110 watt switchers feature small size, low cost, high efficiency with universal input voltage (85-264VAC) without jumpers.

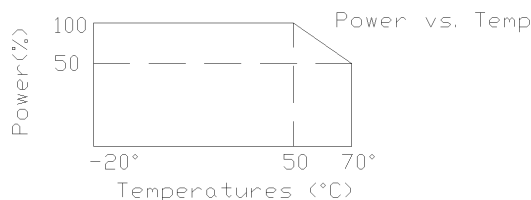
Both single output and multiple output models are available. The UV4110M Series is designed in full compliance to UL2601-1, CSA22.2#601-1, and VDEEN60601-1, IEC601. This series is designed for medical applications.

FEATURES

- 85 TO 264VAC Universal Input
- Innovated Mosfet Design
- Low Cost
- High Efficiency
- Built-in Line Filter to Meet FCC Class B
- 100% Hi-Pot Test
- 100% Cycling On-Off Burn-In Test
- Low Leakage Current

APPLICATIONS

- Small Digitally Based System Used in Medical and Dental Environment
- Any System Requiring Low Leakage Current Power Supply



GENERAL SPECIFICATIONS

Input Voltage..... 85VAC to 264VAC
or 150VDC to 350VDC

Input Frequency..... 47Hz to 440Hz

Inrush Current (cold)..... 15A @ 115VAC
30A @ 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

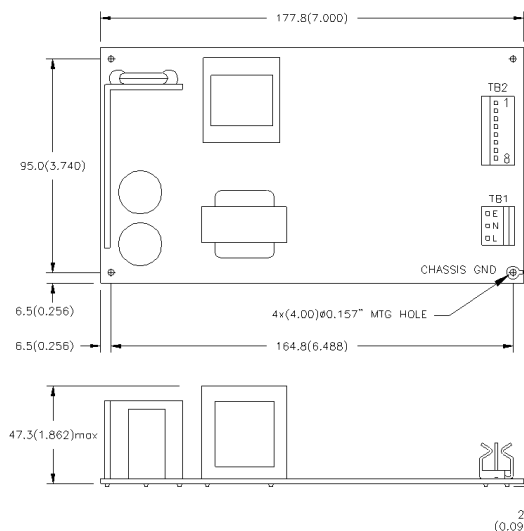
Overload Protection..... Foldback
at 150% load

Output #1 Voltage Adjustable..... ±10%

Switching Frequency..... 30KHz

Safety:
Designed in full compliance with..... UL 2601-1
CSA 22.2 #601-1
IEC601, EN60601-1

7.0 MECHANICAL SPECIFICATION



MECHANICAL SPECIFICATIONS:
Dimension Shown in Inch (mm)

PC Board Size:
7.0" x 4.25" x 1.86"
(177.8mm x 107.95mm x 49.7mm)

Weight:
500 Grams Approx.

MOUNTING HOLE:
6.488" x 3.74" (164.8mm x 45.0mm)

TB1: Molex P/N
AC Input using 5273-05A or Equivalent

TB2: Molex P/N
DC Output using 5273-8 or Equivalent



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UV4410M SERIES 110 WATT— PIN ASSIGNMENT

Pin	1	2	3	4	5	6
UV4110M-5	+12V	+12V	+12V	COM	COM	COM
UV4110M-6	+15V	+15V	+15V	COM	COM	COM
UV4110M-7	+24V	+24V	+24V	COM	COM	COM

UV4410M SERIES 110 WATT— OUTPUT SPECIFICATIONS

Model	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
		Min.	Rate	Peak			Line	Load
UV4110M-5	+12V	0	9.2	15.0	1%	100 mV	1%	1%
UV4110M-6	+15V	0	7.5	12.0	1%	100 mV	1%	1%
UV4110M-7	+24V	0	4.5	6.5	1%	150 mV	1%	1%

**Note: A) Contact factory for Safety Agency Approved status.
B) 50 Watts Adaptor and PS2 type for medical application
also available, please see DT and TESM Series.**