



150 WATT Universal Input MEDICAL AC/DC Power Supplies



FEATURES

- **Universal Input Range**
- **Operating Temperature Range:**
-25° to +80° C (with derating)
- **Open Frame Package**
2.00" X 4.00" X 1.16"
Options: Chassis Mount
Enclosed
Din Rail
- **High Efficiency: To 92%**
- **Active Power Factor Correction**
- **4000 Vac Input/Output**
2MOPP Isolation
Class I and Class II Protection
- **Built-In EMI Class A Filter**
- **Low Leakage Current under 100µA**
- **Medical Safety Approvals**
Including: UL, CE and ANSI/AAMI
ES60601-1, EN60601-1, and
IEC60601-1 3rd Edition
- **RoHS Compliant to 2011/65/EU**

MUI150 Series

Specifications - All specifications are typical at nominal input, full load and 25° C.

INPUT

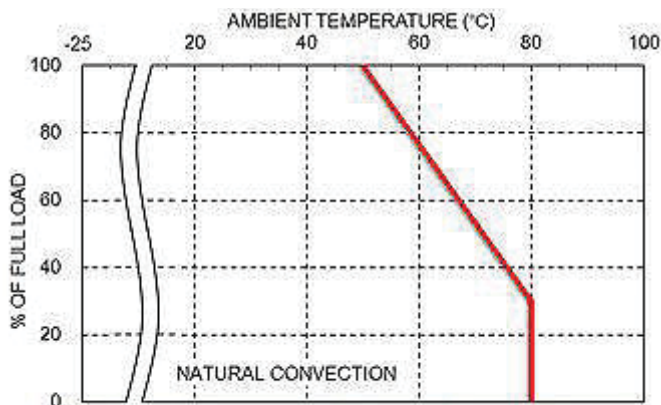
Voltage Range.....	AC Input.....	85 to 264VAC
	DC Input.....	120 to 370VDC
Input Frequency.....	AC Input.....	63Hz
Input Current.....	115VAC and Full Load.....	1.7 A
	230VAC and Full Load.....	0.8 A
No Load Input Power... ..	230VAC.....	0.3 Watts
	230VAC.....	MEF - F.....0.6 Watts
Leakage Current.....	264VAC.....	100µA
Start up time.....		1000ms
Rise time.....		20ms
Hold up time.....	115VAC and Full Load.....	16ms
Input inrush current... ..	230VAC.....	60A
Input protection.....	Internal fuse inline and neutral	T3,15A/250VAC

OUTPUT

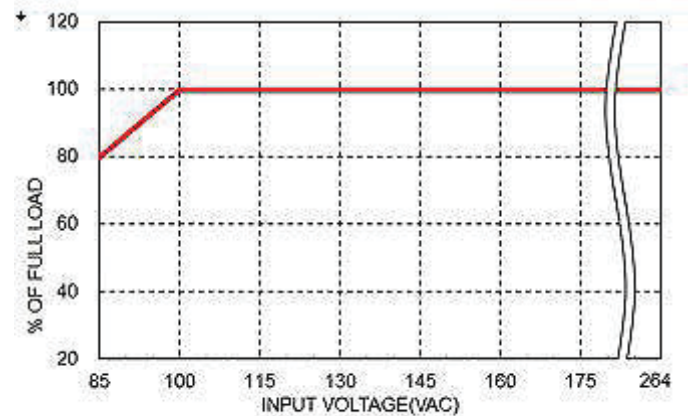
Output Power.....	Forced air cooling with 10CFM.....	150Watts
	Natural connection for 15Vout, 24Vout, 28Vout, 36Vout.....	110Watts
	Natural connection for 12Vout, 48Vout.....	100Watts
Initial set Voltage Accuracy.....	230VAC and Full Load.....	±1.0%
Line Regulation.....	Low Line to High Line at Full Load.....	±0.2%
Load Regulation.....	No Load to Full Load.....	±0.5%
	10% Load to 90% Load.....	±0.4%
Voltage Adjustability.....		±10%
Minimum Load.....		0%
Ripple and Noise.....	Measured by 20MHz band width	
	With a 10µF/25V 1206 X7R MLCC.....	12Vout... ..120mVp-p
	With a 10µF/25V 1206 X7R MLCC.....	15Vout... ..150mVp-p
	With a 1µF/50V 1206 X7R MLCC.....	24Vout... ..220mVp-p
	With a 1µF/50V 1206 X7R MLCC.....	28Vout... ..220mVp-p
	With a 1µF/50V 1206 X7R MLCC.....	36Vout... ..250mVp-p
	With a 0.1µF/100V 1206 X7R MLCC.....	48Vout... ..250mVp-p
Temperature Coefficient.....		±0.2%°C
Transient Response.....	Load step from 50-75% change at 2.5A/µs... ..	Peak deviation.....3%Vout
		Recovery time.....500µs
Over Voltage Protection.....	% of Vout(nom); Latch mode.....	135%
Over Load Protection.....	% of Iout rated; Hiccup mode.....	150%
		12Vout, 15Vout.
Short Circuit Protection.....		Continuous, automatic recovery
Fan Power Supply.....		12V at 500mA

Additional specifications on next page.

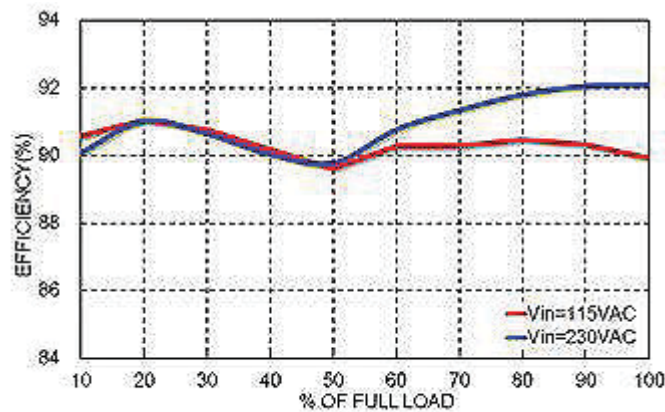




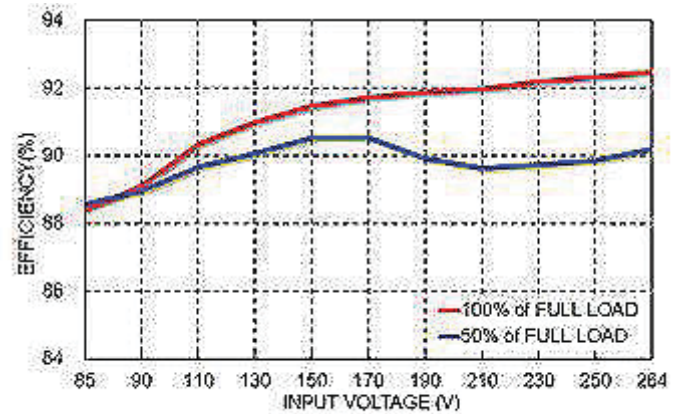
Derating Curve vs. Ambient Temperature



Derating Curve vs. Input Voltage

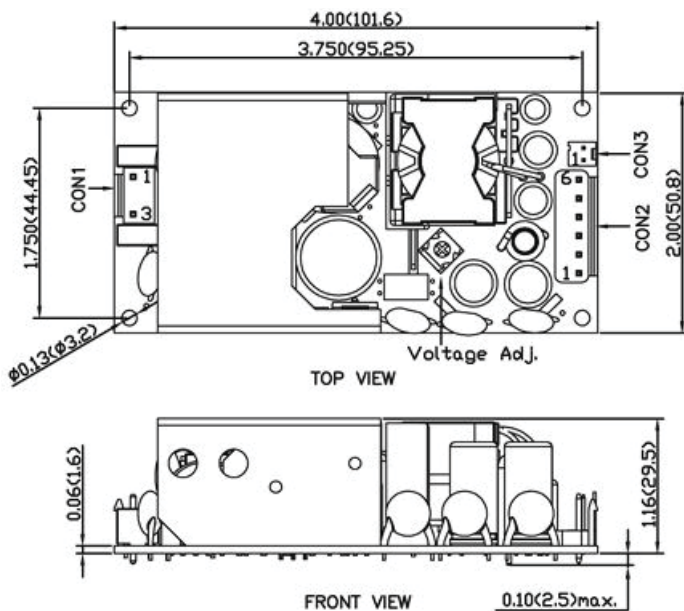


Efficiency vs. Output Load



Efficiency vs. Input Voltage

MUI150 OpenType Mechanical Drawing



1. All dimensions in inch (mm)
2. Tolerance : $x.xx \pm 0.02$ ($x.x \pm 0.5$) $x.xxx \pm 0.01$ ($x.xx \pm 0.25$)
3. M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m

Additional mechanical specifications on next page.

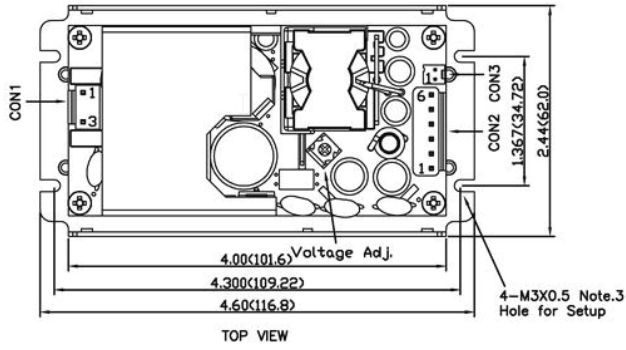
CON1 - Input Connector	
PIN 1	Line
PIN 3	Neutral
Mates with	
JST housing : VHR-3N	
JST crimp terminals : SVH-21T-P1.1	
Mounting holes marked with ⊕	
must be connected to safety earth for CLASS 1 application	
CON2 - Output Connector	
PIN 1, 2, 3	-Vout
PIN 4, 5, 6	+Vout
Mates with	
JST housing : VHR-6N	
JST crimp terminals : SVH-21T-P1.1	
CON3 - Fan Connector	
PIN 1	-Fan
PIN 2	+Fan
Mates with:	
Molex housing: 22-01-1022	
Molex crimp terminals: 2759	



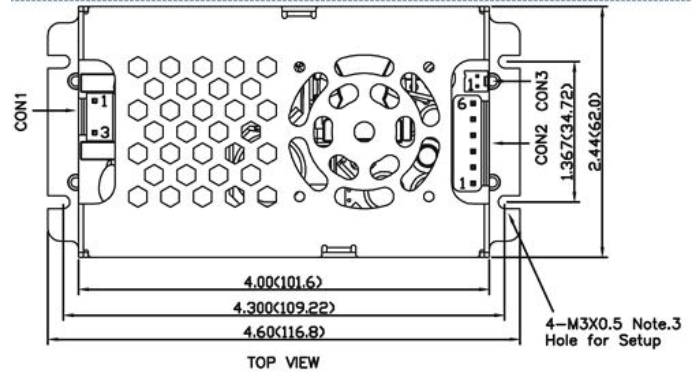
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MUI150 ChassisType Mechanical Drawing

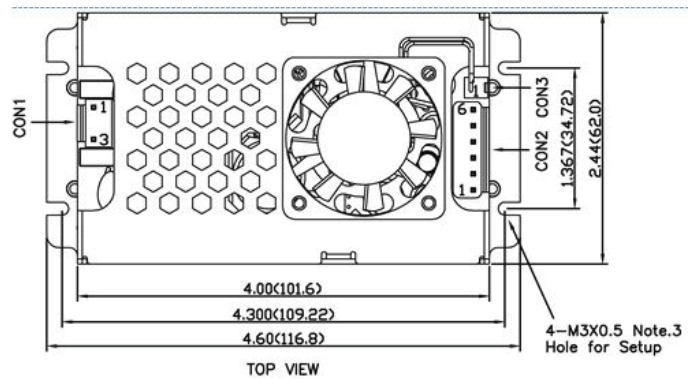


MUI150 Enclosed Type Mechanical Drawing



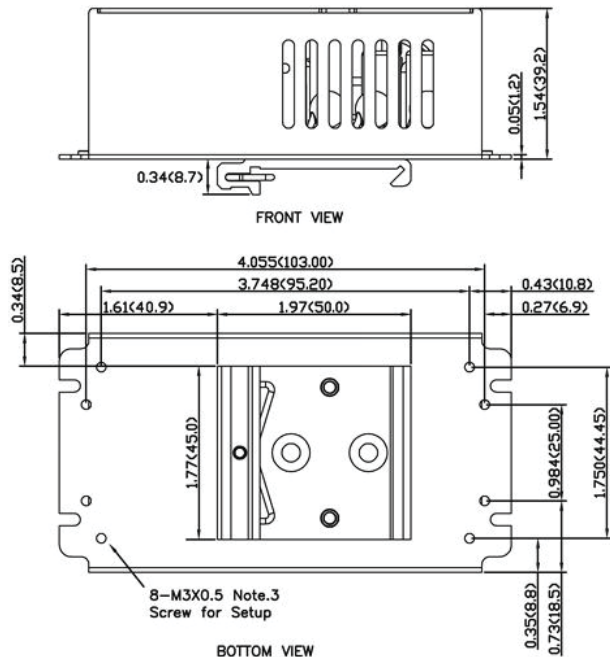
BOTTOM VIEW please refer to U chassis type

MUI150 Enclosed Type with FAN Mechanical Drawing



BOTTOM VIEW please refer to U chassis type

MUI150 Din Rail Type Mechanical Drawing



- Note:
1. All dimensions in inch (mm)
 2. Tolerance : x.xx±0.02 (x.x±0.5) x.xxx±0.01 (x.xx±0.25)
 3. M3×0.5 screw locked torque MAX 5Kgf.cm/0.49N.m



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