

Features

- 3 x 2 x 0.75 Inches Form factor
- 40 Watts Convection
- Approval to EN60601 3rd Edition
- Efficiencies 85% Typical
- -40 to 70 degree operating temperature*
- Dual fusing
- 2m Hours, Telcordia -SR332-issue 3 MTBF
- Standby Power < 0.3W
- Medical (BF) Safety Approvals

Electrical Specifications

Input Voltage	85-264 VAC/390 VDC, Universal	
Input Frequency	47-63 Hz	
Input Current	115 VAC: 0.8 A max.	230 VAC: 0.4 A max.
No Load Power	less than 0.3W typical	
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A	
Leakage Current	300 uA Typical, (N.A. For Class II Option)	Touch current <100uA
Efficiency	85% Typical	
Hold-up Time	40W:6 ms @230VAC	
Output Power	40W Convection Cooling	
Line Regulation	+/-0.5%	
Load Regulation	+/-1%	
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% , recovery time < 5 ms	
Rise Time	50ms typical	
Set Point Tolerance	+/-1%	
Over Current Protection	>110%	
Over Voltage Protection	110 to 140%	
Short Circuit Protection	Hiccup mode	
Switching Frequency	65 KHz Typical	
Operating Temperature ⁴	-40 to +70°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	5% to 95%, noncondensing	
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.	
MTBF	2m Hours, Telcordia -SR332-issue 3	
Isolation Voltage	Input to Output – 4000 VAC medical applications. Input to GND - 1500 VAC (Not Applicable For Class II Option) Output to GND- 1500VAC for type BF , 500 VAC for type B (Not Applicable For Class II Option)	

Option 1

Model Number	Description	Voltage	Max. Load	Min. Load	Ripple ¹
MULP40-1305	with Header	5 V	5A	0.0 A	1.5%
MULP40-1312	with Header	12 V	3.33A	0.0 A	1%
MULP40-1315	with Header	15 V	2.67A	0.0 A	1%
MULP40-1324	with Header	24 V	1.67A	0.0 A	1%
MULP40-1330	with Header	30 V	1.33A	0.0 A	1%
MULP40-1348	with Header	48 V	0.83A	0.0 A	1%
MULP40-1358	with Header	58 V	0.7A	0.0 A	1%
MULP40-CK metal cover kit accessory					

Option 2

Model Number	Description	Voltage	Max. Load	Min. Load	Ripple ¹
MULP40-1205	with PCB Mounting	5 V	5A	0.0 A	1.5%
MULP40-1212	with PCB Mounting	12 V	3.33A	0.0 A	1%
MULP40-1215	with PCB Mounting	15 V	2.67A	0.0 A	1%
MULP40-1224	with PCB Mounting	24 V	1.67A	0.0 A	1%
MULP40-1230	with PCB Mounting	30 V	1.33A	0.0 A	1%
MULP40-1248	with PCB Mounting	48 V	0.83A	0.0 A	1%
MULP40-1258	with PCB Mounting	58 V	0.7A	0.0 A	1%
MULP40-CK metal cover kit accessory					

Option 3

Model Number	Description	Voltage	Max. Load	Min. Load	Ripple ¹
MULP40-1005	with Screw Terminal	5 V	5A	0.0 A	1.5%
MULP40-1012	with Screw Terminal	12 V	3.33A	0.0 A	1%
MULP40-1015	with Screw Terminal	15 V	2.67A	0.0 A	1%
MULP40-1024	with Screw Terminal	24 V	1.67A	0.0 A	1%
MULP40-1030	with Screw Terminal	30 V	1.33A	0.0 A	1%
MULP40-1048	with Screw Terminal	48 V	0.83A	0.0 A	1%
MULP40-1058	with Screw Terminal	58 V	0.7A	0.0 A	1%
MULP40-CK metal cover kit accessory					

Connectors		
J1 Option 1 & 3	Pin 1	AC LINE
	Pin 2	NOT FITTED
	Pin 3	AC NEUTRAL
J2 Option 1 & 3	Pin 1,2	V1 +VE
	Pin 3,4	V1 -VE



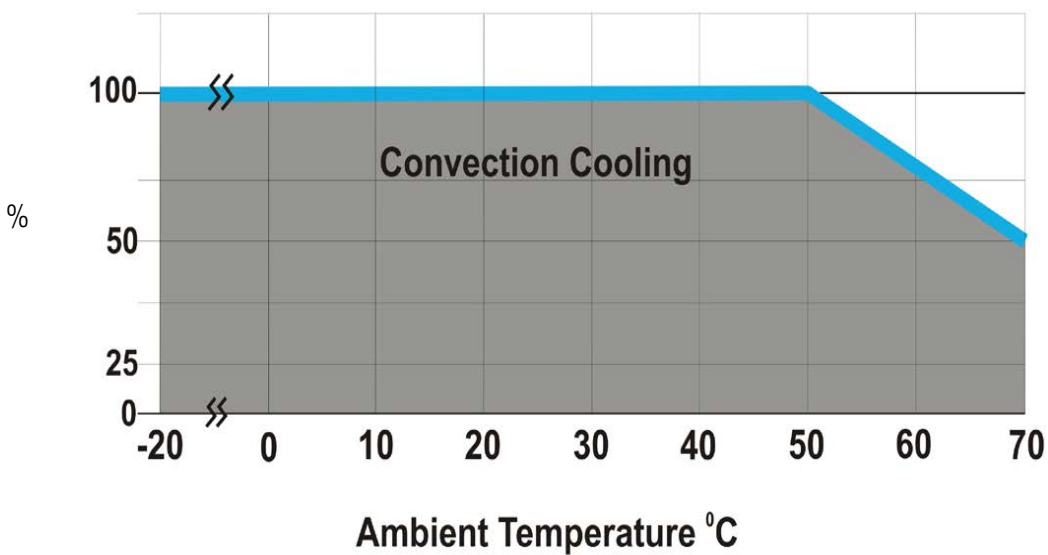
Notes

1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
2. Class II means without input Earth pin.
3. Specifications are for nominal input voltage, 25°C unless otherwise stated.
4. -40 to 0°C startup is guaranteed with spec deviation in output ripple and voltage regulation.

Mechanical Specifications	
AC Input Connector (J1) Option 1 & 3	Tyco: 640445-3 Mating: 647402-3; Pins: 3-647409-1
DC Output Connector (J2) Option 1 & 3	Tyco: 640445-4 Mating: 647402-4; Pins: 3-647409-1
Dimensions	3 x 2 x 0.75 inches (101.60 x 50.8x 19.05 mm)
Weight	100 gm approx
EMC	
CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15-B
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	Level A radiated, Level B radiated with external core (King core K5B RC 25x12x15-M in input cable (5 turns))
Surge Susceptibility	EN61000-4-5, Level-3
Safety	
Safety Standard(s)	EN60601-1, IEC 60601-1 (ed.3), ANSI / AAMI ES 60601 - 1, CSA C22.2 No. 60601-1
Approval Agency	Nemko, UL, C-UL
Safety File Number(s)	(Pending)

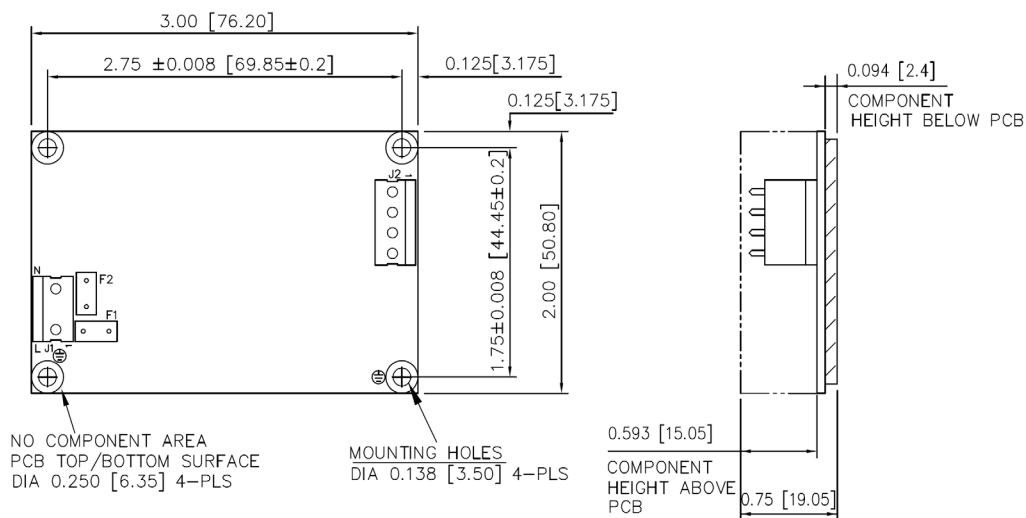
Derating Curve

All Outputs



Mechanical Drawing

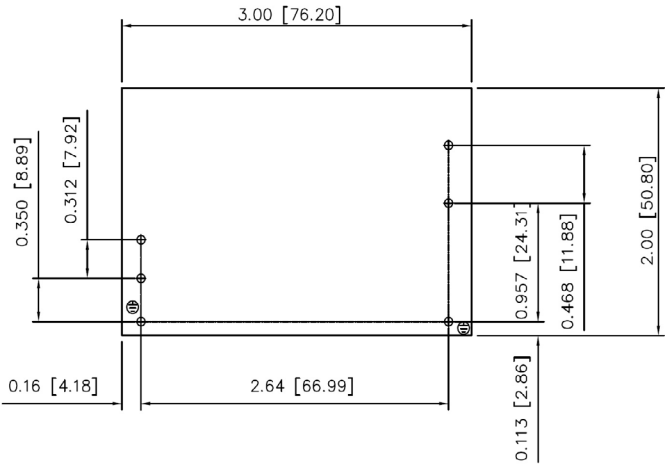
Option 1



MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE : +/-0.04[+/-1.0MM]

Mechanical Drawing

Option 2



MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE : +/-0.02[+/-0.5MM]

