

Product Specification

AC - DC Medical Power Module

Key Product Features

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC
- Regulated Output and Low Ripple and Noise
- <0.1W No Load Input Power
- Isolation Class II
- Small Size
- CE, CB, UL, cUL Approvals
- 3-Year Product Warranty

DPMFC15 Series 15 Watt



All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Product Specification

Input

Max Output Wattage	15W
Voltage	90-264 VAC or 120-370 VDC, "N" to DC "+"; "L" to DC "-"
Frequency	47-440 Hz
Current (Full Load)	385mA max. (115VAC) / 250mA max. (230 VAC)
Inrush current (<2mS, Cold Start)	20A max. (115 VAC) / 40 A max. (230VAC)
Leakage current	<0.1mA max. / 264VAC (Touch Current)
External Fuse (recommended)	3.15A slow blow type

NOTES:

- 1- This product is not designed for use in critical life support systems, equipment used in hazardous environment, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet.
- 2- Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
- 3- Safety approvals cover frequency 47-63 Hz.
- 4- The "natural convection" is about 20LFM but is not equal to still air (0 LFM).
- 5- It's recommended to add Varistor 14S471K at L / N input side in parallel.

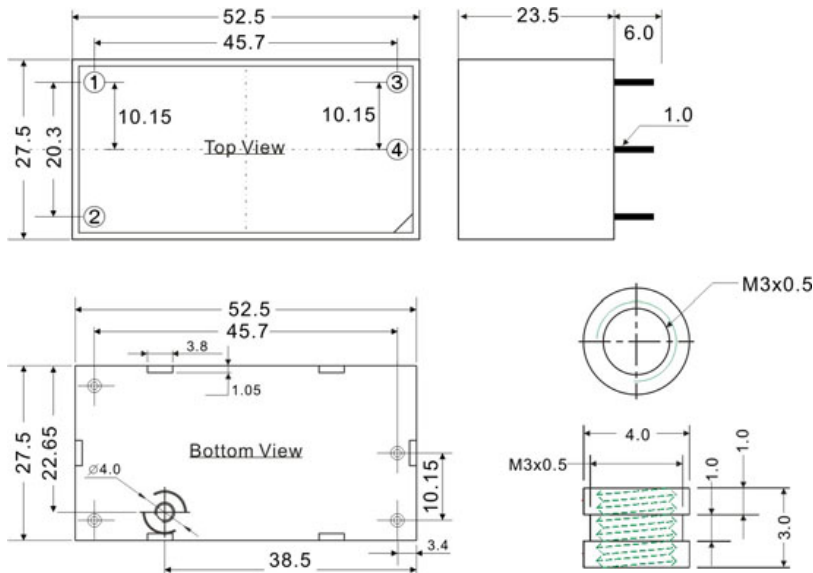
EMC

EMI (Conducted & Radiated Emission)	EN 55011 class B (Radiation Class A for MFC15 A2 Series)
ESD	EB61000-4-2 air ±8kV, Contact ±4kV
Radiated Immunity	EN61000-4-3 10V/m
Fast Transient	EN61000-4-4 ±2kV
Surge	EN61000-4-5 ±1kV
Conducted Immunity	EN61000-4-6 10 Vrms
PFMF	EN61000-4-8 30A/m
Dips	EN61000-4-11 30% 10ms
Interruption	EN61000-4-11 >95% 5000ms

Mechanical Specifications

Dimensions	52.5(L)x27.5(W)x23.5(H) - Tolerance ±0.5mm
Case Material	Plastic resin (flammability to UL 94V-0)
Weight	60g
Cooling Method	Free air convection

Mechanical Outline

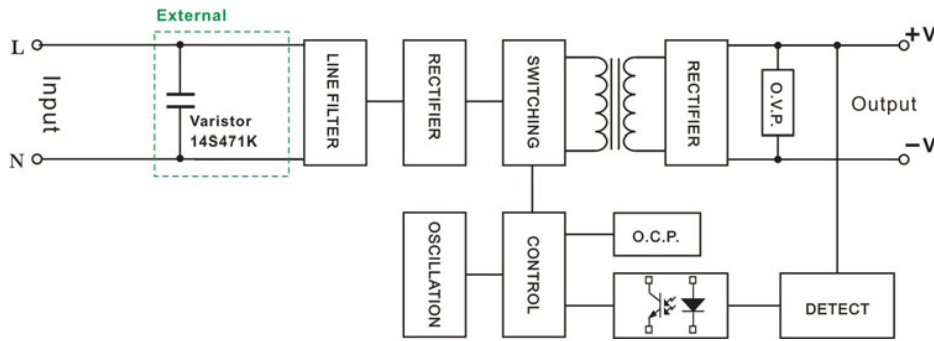


Outline Pin Assigner

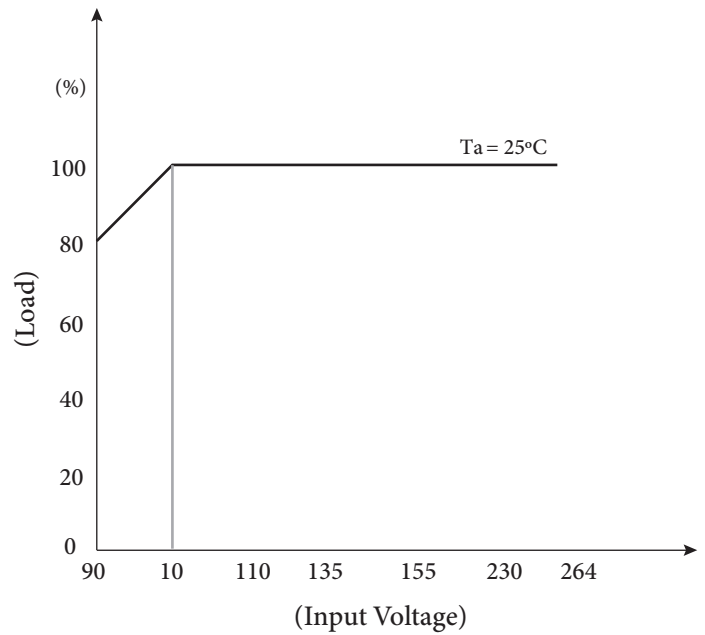
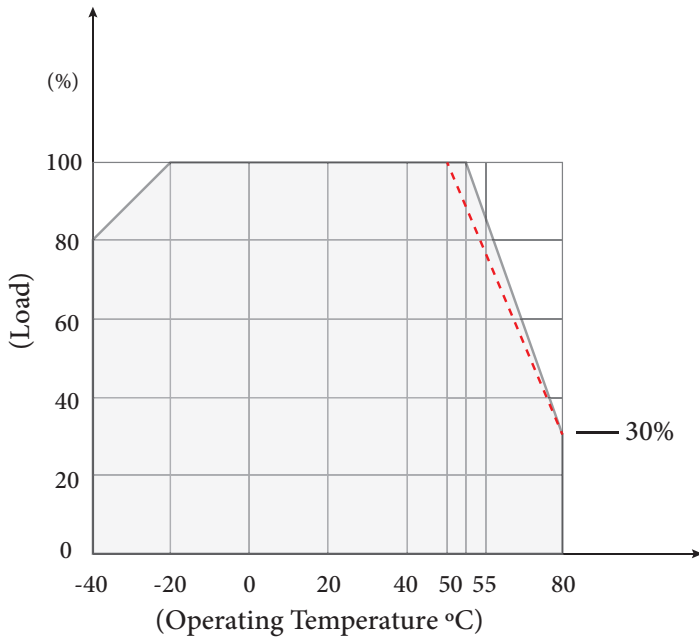
PIN#	Signal Name
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

Block Diagram

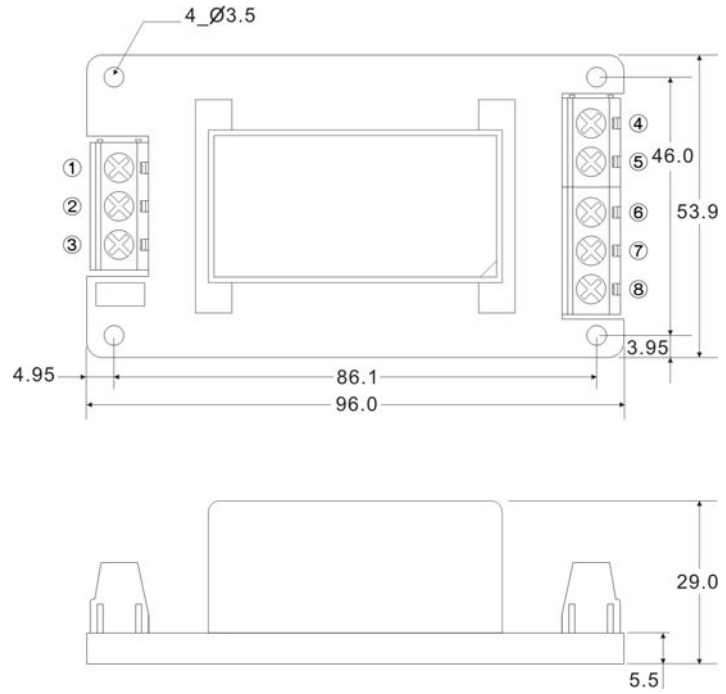
Single Output



Derating Curve



Screw terminal



Outline Pin Assignent

PIN#	Signal Name
1	NO CONNECT
2	AC IN (L)
3	AC IN (N)
4	NO CONNECT
5	+DC OUT
6	-DC OUT
7	NO CONNECT
8	NO CONNECT