

## 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
- Isolation Class II
- Low Standby <0.1W
- Small Size
- CE, CB, UL, cUL Approvals
- 3-Year Product Warranty

## DPMZC20 Series 20 Watt



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

Product Specification	
Model	DPMZC20-12S      DPMZC20-24S
<b>Input</b>	
Max Output Wattage	20W
Voltage	90-264VAC or 120-370 VDC, "N" TO DC "+"; "L" to DC "-"
Frequency	47-440 Hz
Current (Full Load)	440mA max. (115VAC) / 287mA max. (230 VAC)
Inrush current (<2ms, cold start)	20A max. (115 VAC) / 40A max. (230VAC)
Leakage current	<0.1mA max. / 264VAC (Touch Current)

- 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 application 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.



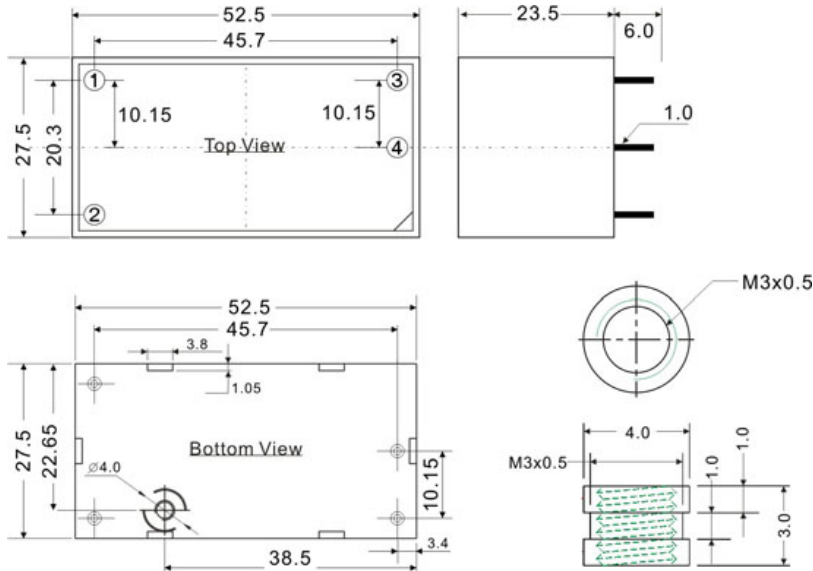
**EMC**

EMI (Conducted & Radiated Emission)	EN 55011 class B (Radiation Class A for MZC20 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	52g
Cooling Method	Free air convection

**Mechanical Outline**

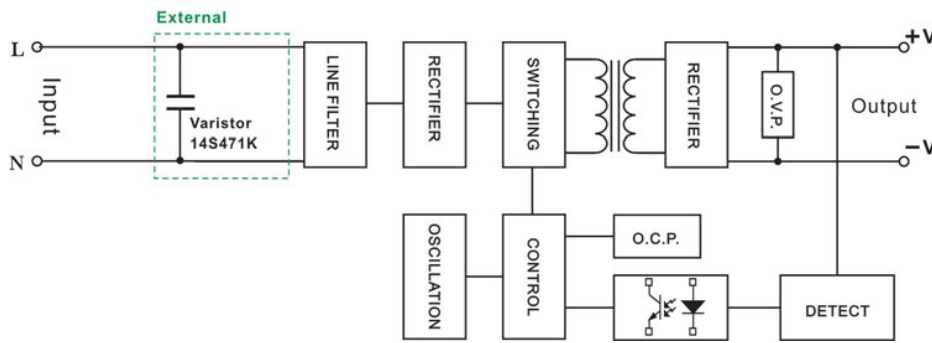


**Outline Pin Assigner**

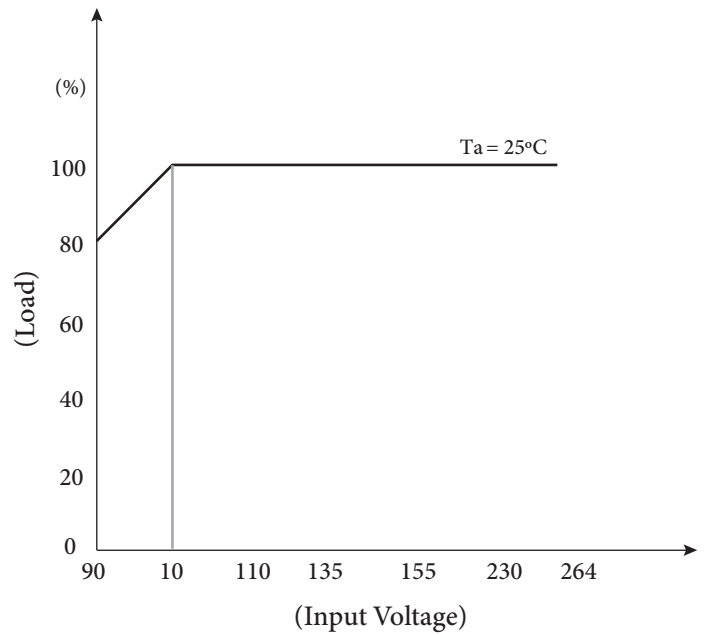
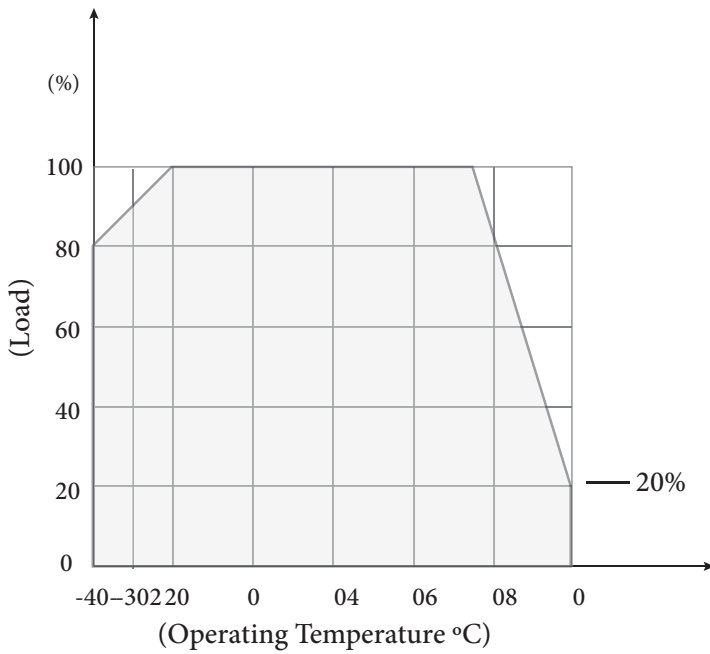
PIN#	Signal Name
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

### Block Diagram

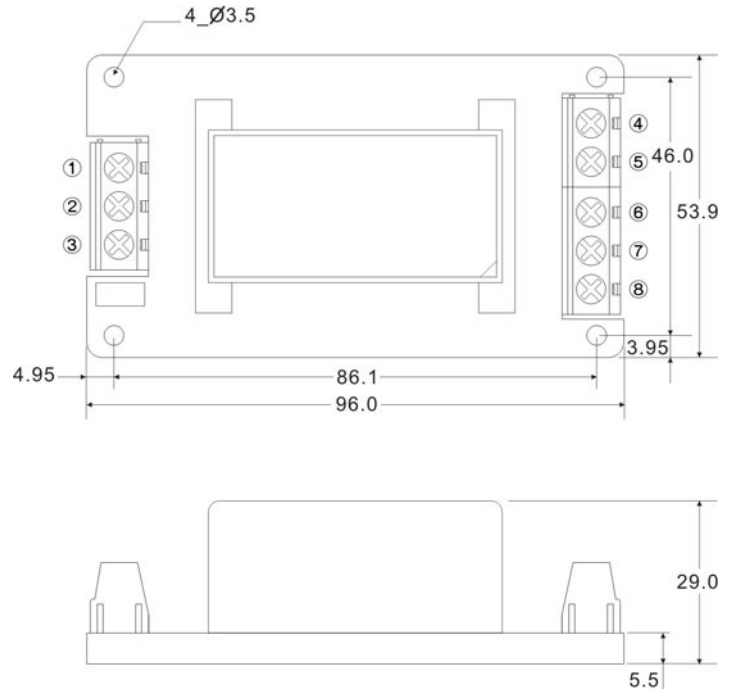
Single Output



### Derating Curve



Screw terminal



Outline Pin Assign

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