

PM-10 Series - 10W Single Output Encapsulated Medical PSU

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Features

- Universal AC input/full range
- Ultra low profile
- Isolation class II
- No load power consumption <0.5W
- Fixed switching frequency at 67KHz
- Short circuit, OLP & OVP
- UL60601-1, IEC60601-1 & TUV EN60601-1 medical safety approved
- Cooling by free air convection
- Fixed switching frequency at 67KHz

Standards



Applications

- Non-patient connect medical
- General electronics
- IT equipment
- Industrial

Case Details

62.85 x 50 x 19.7mm

Specification

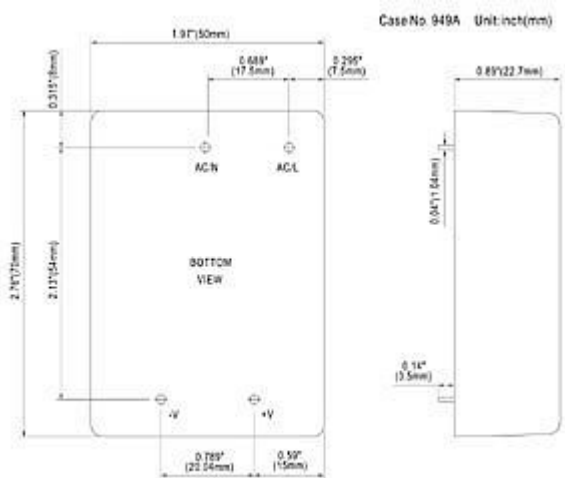
Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 440Hz
AC Current	0.25A/115VAC 0.15A/230VAC
Inrush Current	25A/115VAC 45A/230VAC typically, cold start
Setup, Rise Time	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load
Holdup Time	100ms/230VAC 20ms/115VAC typically at full load
Overload Protection	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Protection type Shut off
Working Temperature	-20°C to +70°C (Refer to output load derating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temperature, Humidity	-40°C to +85°C, 10 to 95% RH
Temp Coefficient	±0.03%/°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes
Safety Standards	UL60601-1, TUV EN60601-1 Approved
Withstand Voltage	I/P-O/P:4KVAC
Isolation Resistance	I/P-O/P:100M Ohms/500VDC
EMC	Compliance to EN55011(CISPR11), EN55022 (CISPR22) Class B, EN61000-3-2,-3 EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A.
MTBF	723.2Khrs min. MIL-HDBK-217F (25°C)
Dimensions	70 x 50 x 22.7mm

Items

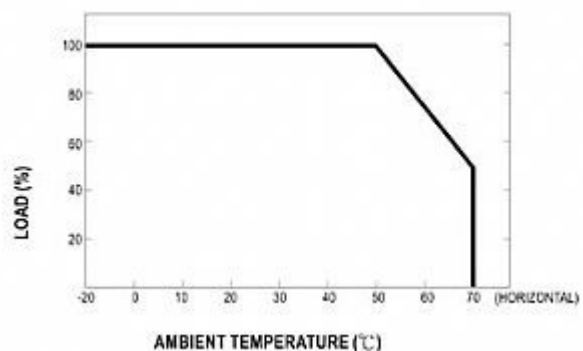
PM-10 Series Output Data

Part Code	Voltage	Rated Current	Current Range	Rated Power	R&N
PM-10-3.3	3.3V	2.5A	0 ~ 2.5A	8.25W	80mV
PM-10-5	5V	2A	0 ~ 2A	10W	80mV
PM-10-12	12V	0.85A	0 ~ 0.85A	10.2W	150mV
PM-10-15	15V	0.67A	0 ~ 0.67A	10.05W	150mV
PM-10-24	24V	0.42A	0 ~ 0.42A	10.08W	240mV

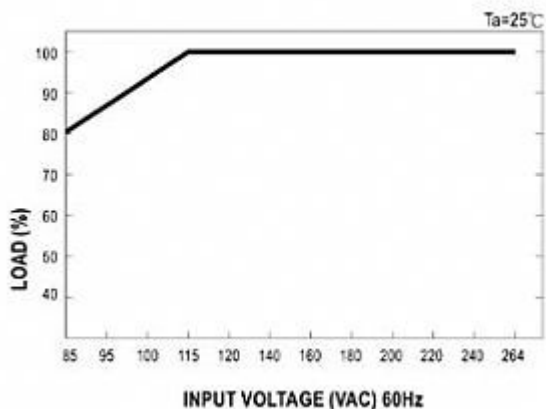
Part Code	Tol.	Line Reg.	Load Reg.	Eff.	OVP
PM-10-3.3	±3.0%	±1.0%	±1.0%	67%	3.8 ~ 4.95V
PM-10-5	±2.0%	±1.0%	±1.0%	74%	5.75 ~ 6.75V
PM-10-12	±2.0%	±0.5%	±0.5%	79%	13.8 ~ 16.2V
PM-10-15	±2.0%	±0.5%	±0.5%	80%	17.25 ~ 20.25V
PM-10-24	±2.0%	±0.5%	±0.5%	79%	27.6 ~ 32.4V



Output Derating



Output Derating VS Input Voltage



Related Documents

- [PM-10 Series Block Diagram \(251KB\)](#) [PM-10 Series Mechanical Diagram \(433KB\)](#) [PM-10 Series CB Certificate \(163KB\)](#)
- [PM-10 Series CE Declaration \(23KB\)](#) [PM-10 Series TUV Certificate \(143KB\)](#) [PM-10 Series RoHS Declaration \(89KB\)](#)
- [PM-10 Series cUL Certificate \(123KB\)](#) [PM-10 Series UL Certificate \(122KB\)](#)