

PM-20 Series - 20W Single Output Encapsulated Medical PSU

[Home](#) > [Products](#) > [Medical](#) > 20W Single Output Encapsulated Medical PSU

Features

- Universal AC input/full range
- Ultra low profile
- No load power consumption <0.75W
- Short circuit, OLP & OVP
- UL60601-1, IEC60601-1 & TUV EN60601-1 medical safety approved
- Cooling by free air convection
- Fixed switching frequency at 90KHz

Standards



Applications

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

Case Details

94 x 56 x 22.7mm

Specification

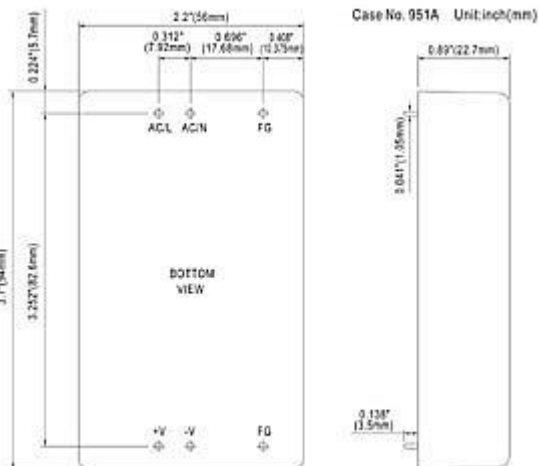
Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 440Hz
AC Current	0.6A/115VAC 0.4A/230VAC
Inrush Current	30A/115VAC 65A/230VAC typically, cold start
Setup, Rise Time	500ms, 20ms/230VAC 500ms, 20ms/115VAC at full load
Holdup Time	50ms/230VAC 16ms/115VAC typically at full load
Overload Protection	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 +60°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 I/P-FG:1.5KVAC O/P-FG:1.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: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	487.8Khrs min. MIL-HDBK-217F (25°C)
Dimensions	94 x 56 x 22.7mm

Items

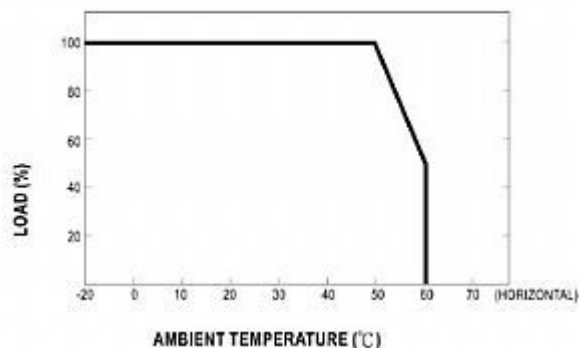
PM-20 Series Output Data

Part Code	Voltage	Rated Current	Current Range	Rated Power	R&N
PM-20-3.3	3.3V	4.5A	0 ~ 4.5A	14.85W	80mV
PM-20-5	5V	4.4A	0 ~ 4.4A	22W	80mV
PM-20-12	12V	1.8A	0 ~ 1.8A	21.6W	150mV
PM-20-15	15V	1.4A	0 ~ 1.4A	21W	150mV
PM-20-24	24V	0.92A	0 ~ 0.92A	22.08W	240mV

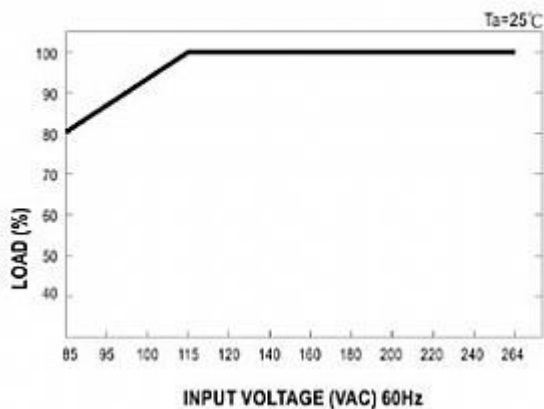
Part Code	Tol.	Line Reg.	Load Reg.	Eff.	OVP
PM-20-3.3	±3.0%	±1.0%	±1.5%	71%	3.8 ~ 4.46V
PM-20-5	±2.0%	±1.0%	±1.5%	75%	5.75 ~ 6.75V
PM-20-12	±2.0%	±0.5%	±1.0%	81%	13.8 ~ 16.2V
PM-20-15	±2.0%	±0.5%	±1.0%	83%	17.25 ~ 20.25V
PM-20-24	±2.0%	±0.5%	±0.5%	84%	27.6 ~ 32.4V



Output Derating



Output Derating VS Input Voltage



Related Documents

- [PM-20 Series Block Diagram \(278KB\)](#)
- [PM-20 Series Mechanical Diagram \(409KB\)](#)
- [PM-20 Series CB Certificate \(172KB\)](#)
- [PM-20 Series CE Declaration \(24KB\)](#)
- [PM-20 Series TUV Certificate \(73KB\)](#)
- [PM-20 Series RoHS Declaration \(89KB\)](#)
- [PM-20 Series cUL Certificate \(123KB\)](#)
- [PM-20 Series UL Certificate \(122KB\)](#)