

## PM-05 Series - 5W 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
- Short circuit, OLP & OVP
- UL60601-1 & TUV EN60601-1 medical safety approved
- Cooling by free air convection
- Fixed switching frequency at 67KHz

### Standards



### Applications

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

### Case Details

62.85 x 50 x 19.7mm

### Specification

<b>Input Voltage</b>	85 ~ 264VAC 120 ~ 370VDC
<b>Input Frequency</b>	47 ~ 440Hz
<b>AC Current</b>	0.12A/115VAC 0.08A/230VAC
<b>Inrush Current</b>	25A/115VAC 45A/230VAC typically, cold start
<b>Setup, Rise Time</b>	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load
<b>Holdup Time</b>	100ms/230VAC 20ms/115VAC typically at full load
<b>Overload Protection</b>	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed
<b>Over Voltage Protection</b>	Protection type Shut off
<b>Working Temperature</b>	-20°C to +70°C (Refer to output load derating curve)
<b>Working Humidity</b>	20 ~ 90% RH non-condensing
<b>Storage Temperature, Humidity</b>	-40°C to +85°C, 10 to 95% RH
<b>Temp Coefficient</b>	±0.03%/°C (0 ~ 50°C)
<b>Vibration</b>	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes
<b>Safety Standards</b>	UL60601-1, TUV EN60601-1 Approved
<b>Withstand Voltage</b>	I/P-O/P: 4KVAC
<b>Isolation Resistance</b>	I/P-O/P: 100M Ohms/500VDC
<b>EMC</b>	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.
<b>MTBF</b>	1513.4Khrs min. MIL-HDBK-217F (25°C)
<b>Dimensions</b>	62.85 x 50 x 19.7mm

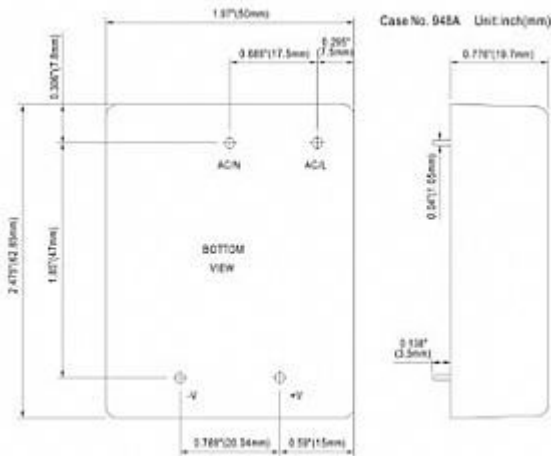
Items

PM-05 Series Output Data

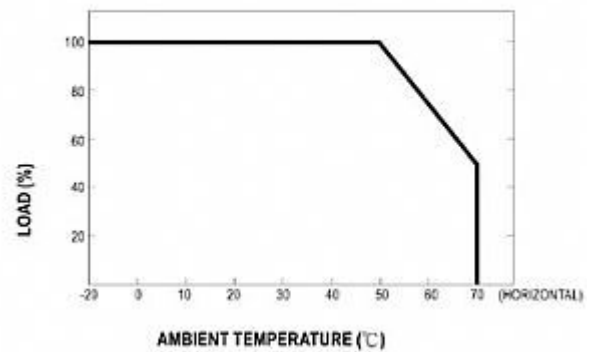
Part Code	Voltage	Rated Current	Current Range	Rated Power	R&N
PM-05-3.3	3.3V	1.25A	0 ~ 1.25A	4.125W	80mV
PM-05-5	5V	1A	0 ~ 1A	5W	80mV
PM-05-12	12V	0.42A	0 ~ 0.42A	5.04W	150mV
PM-05-15	15V	0.33A	0 ~ 0.33A	4.95W	150mV
PM-05-24	24V	0.23A	0 ~ 0.23A	5.52W	240mV

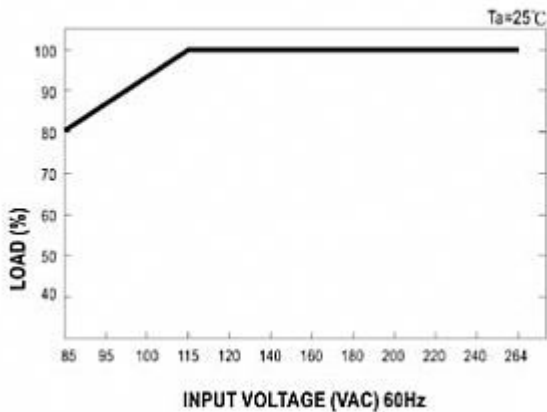
Part Code	Tol.	Line Reg.	Load Reg.	Eff.	OVP
PM-05-3.3	±3.0%	±1.0%	±1.5%	67%	3.8 ~ 4.95V
PM-05-5	±2.0%	±1.0%	±1.5%	71%	5.75 ~ 6.75V
PM-05-12	±2.0%	±0.5%	±0.5%	73%	13.8 ~ 16.2V
PM-05-15	±2.0%	±0.5%	±0.5%	76%	17.25 ~ 20.25V
PM-05-24	±2.0%	±0.5%	±0.5%	76%	27.6 ~ 32.4V



Output Derating



Output Derating VS Input Voltage



Related Documents

- [PM-05 Series Mechanical Diagram \(446KB\)](#)
- [PM-05 Series Block Diagram \(252KB\)](#)
- [PM-05 Series CE Declaration \(23KB\)](#)
- [PM-05 Series RoHS Declaration \(89KB\)](#)
- [PM-05 Series CB Certificate \(29KB\)](#)
- [PM-05 Series TUV Certificate \(81KB\)](#)
- [PM-05 Series cUL Certificate \(123KB\)](#)
- [PM-05 Series UL Certificate \(122KB\)](#)