

Features :

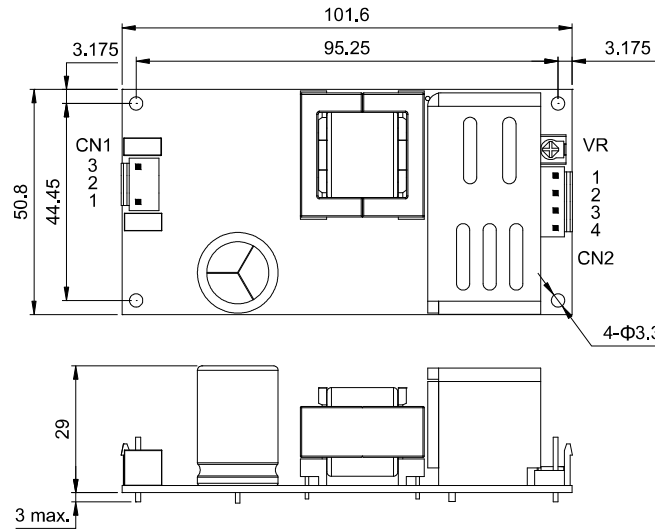
- 4"x2" miniature size
- Universal AC input / Full range
- Protections: Short circuit / Over load / Over voltage
Brown-out (Low AC Input voltage)
- Cooling by free air convection
- UL60601-1/IEC60601-1/EN60601-1: 2006 medical safety approved
- All using 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- 100% full load burn-in test
- Withstand 2G vibration test
- High efficiency ,long life and high reliability
- 3 years warranty



| MODEL | | MP60-12 | MP60-15 | MP60-24 | MP60-48 |
|------------------|---|---|----------|-----------|------------|
| OUTPUT | DC Voltage Range | 12V | 15V | 24V | 48V |
| | Rated Current | 5A | 4A | 2.5A | 1.25A |
| | Current Range | 0 ~ 5.5A | 0 ~ 4.4A | 0 ~ 2.75A | 0 ~ 1.375A |
| | Rated Power | 60W | 60W | 60W | 60W |
| | PEAK LOAD(10sec.) | 66W | 66W | 66W | 66W |
| | Ripple & Noise (max.) | 120 mV | 150 mV | 240 mV | 300 mV |
| | Voltage Adjustment Range | ±10% | | | |
| | Voltage Tolerance | ±2.0% | ±2.0% | ±1.0% | ±1.0% |
| | Line Regulation | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | Load Regulation | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| Setup, Rise Time | 500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load | | | | |
| Hold Up Time | 50ms / 230VAC 13ms / 115VAC at full load | | | | |
| INPUT | Voltage Range | 90V ~ 264VAC 127 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) | | | |
| | Frequency Range | 47Hz ~ 63Hz | | | |
| | Efficiency (Typ.) at 230Vac | 85% | 85% | 86% | 87% |
| | AC Current (Typ.) | 1.3A / 115VAC 0.6A / 230VAC | | | |
| | Inrush Current (Typ.) | Cold Start 30A / 115VAC 60A / 230VAC | | | |
| LEAKAGE CURRENT | For earth <200uA/264VAC, For patient <100uA/264VAC | | | | |
| Protection | Over Load | Above 110% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| | Over Voltage | 115% ~ 140% rated output voltage Protection type : latch-off mode | | | |
| Environment | Working Temp. | -20°C ~ 70°C (Refer to output load de-rating curve) | | | |
| | Working Humidity | 20 ~ 90% RH non-condensing | | | |
| | Storage Temp., Humidity | -40 ~ +85°C, 10 ~ 95% R.H | | | |
| | Temp.Coefficient | ±0.03%/°C (0 ~ 50°C) | | | |
| | Vibration | 10 ~ 500Hz, 2G 10min/1cycle, period for 60 min each along X,Y,Z axes | | | |
| Safety & EMC | Safety Standards | UL60601-1 / TUV EN60601-1: 2006 / IEC60601-1 Approved | | | |
| | Withstand Voltage | I/P - O/P: 4KVAC I/P-FG:1.5KVAC O/P-FG:1.5KVAC | | | |
| | Isolation Resistance | I/P - O/P : 100M Ohms / 500VDC | | | |
| | EMI Conduction & Radiation | EN55011 : 2007+A2 : 2007 Class B | | | |
| | Harmonic Current | EN61000-3-2 : 2006 Class A, EN61000-3-3 : 1995+A1 : 2001+A2 : 2005 | | | |
| | EMS Immunity | EN60601-1-2:2001+A1:2006, IEC61000-4-2,3,4,5,6,8,11 | | | |
| Others | MTBF | 215,48 K Hours | | | |
| | Dimension | 101.6x50.8x29 mm | | | |
| | Packing | 0.151kg ; 80Pcs / 13.56kg | | | |
| Note | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load.</p> <p>6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time</p> <p>8. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</p> | | | | |

Mechanical Specification

Unit : mm



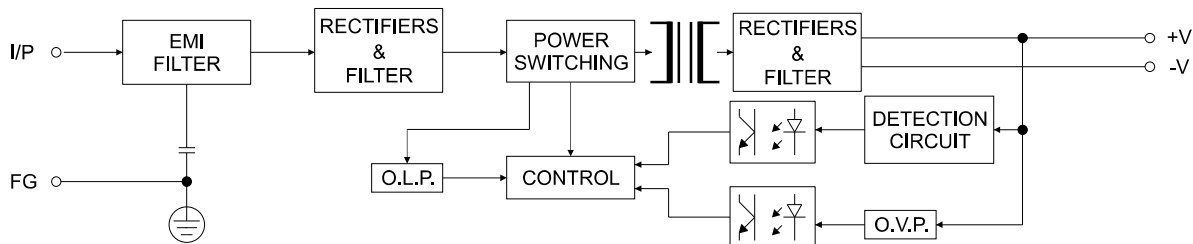
AC Input Connector (CN1) : JST B3P-VH or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1 | AC / N | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2 | No Pin | | |
| 3 | AC / L | | |

DC Output Connector (CN2) : JST B4P-VH or equivalent

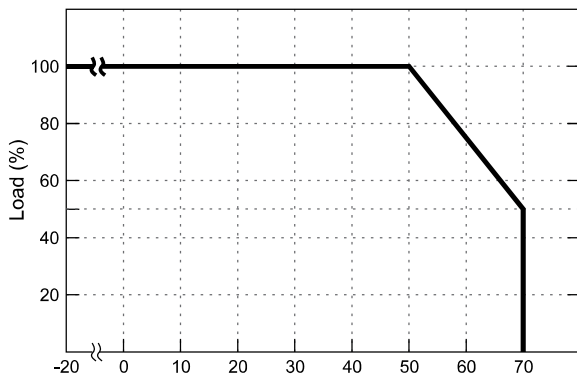
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | +V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4 | -V | | |

Block Diagram

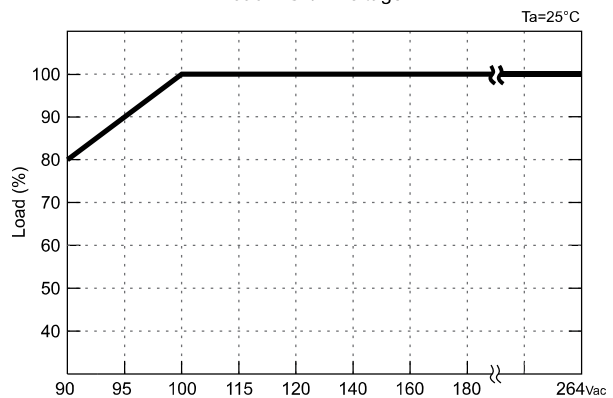


De-rating Curve

Load V.S Temp.



Load V.S I/P Voltage



Ambient Temperature (°C)

Input Voltage(VAC) 60Hz

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