

LPS200-M Series

250 Watts

Data Sheet

Total Power: 125 - 250 Watts
Input Voltage: 90 - 264 Vac
of Outputs: Single

SPECIAL FEATURES

- Medical and ITE safeties
- Active power factor correction
- 3" x 5" footprint
- Less than 1U high
- EN61000-3-2 compliant
- Remote sense
- Power fail
- Adjustable main output
- Built-in Class B EMI filter
- Overvoltage protection
- Overload protection
- Thermal overload protection
- Isolated 12 V Fan output
- LPX200 enclosure kit available
- RoHS compliant

SAFETY

- TUV 62368, 60601-1
- UL 62368, 60601-1
- cULus 62368, 60601-1
- CB Certificate & report
- CE Mark (LVD)



Electrical Specifications

| Input | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Input range | 90 - 264 Vac; 120 - 300 Vdc |
| Frequency | 47 - 63 Hz |
| Inrush current | 50 A max., cold start @ 25 °C |
| Efficiency | 86% typical at full load |
| EMI/RFI | FCC Class B conducted; CISPR22 Class B conducted; EN55022 Class B conducted; VDE0878PT3 Class B conducted |
| Power factor | 0.99 typical |
| Safety ground leakage current | 275 µA @ 50/60 Hz, 264 Vac input |
| Output | |
| Maximum power | 125 W for convection (100 W for LPS202-M); 250 W (200 W for LPS202-M) with 30CFM forced air |
| Adjustment range | ± 10% minimum on the main outputs |
| Fan output | 12 V @ 0.5 A convection, @ 1 A forced air isolated, ± 10% |
| Hold-up time | 16 ms @ 250 W load, 120 Vac input |
| Overload protection | Short circuit protection on all outputs. Case overload protected @ 110 - 160% above rating |
| Overvoltage protection | 15 - 50% above nominal output |
| Logical Control | |
| Power failure | Open collector logic signal goes high 100 - 500 msec after main output; it goes low at least 6 msec before loss of regulation |
| Remote sense | Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected. |

Environmental Specifications

| | |
|--------------------------------|------------------------------------------------------------------------------------------------|
| Operating temperature | 0 °C to 50 °C ambient derate each output as 2.5% per degree from 50° to 70 °C. -20 °C start up |
| Storage temperature | -40 °C to +85 °C |
| Electromagnetic susceptibility | Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3 |
| Humidity | Operating; non-condensing 10% to 95% RH |
| Vibration | IEC68-2-6 to the levels of IEC721-3-2 |
| MTBF calculated | 1 million hours at full load and 25 °C ambient conditions. 230 Vac input, Bellcore |

Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load with Convection Cooling | Maximum Load with 30CFM Forced Air | Peak Load | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|----------------|--------------|--------------------------------------|------------------------------------|-----------|-------------------------|--------------------------------|
| LPS202-M | 5 V | 0 A | 20 A | 40 A | 44 A | ± 2% | 50 mV |
| LPS203-M | 12 V | 0 A | 10.3 A | 20.8 A | 22 A | ± 2% | 120 mV |
| LPS204-M | 15 V | 0 A | 8.3 A | 16.6 A | 18 A | ± 2% | 150 mV |
| LPS205-M | 24 V | 0 A | 5.2 A | 10.4 A | 11.5 A | ± 2% | 240 mV |
| LPS208-M | 48 V | 0 A | 2.6 A | 5.2 A | 5.8 A | ± 2% | 480 mV |

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. This product is a Component Power Supply and is only for inclusion by professional installers within other equipment and must not be operated as a standalone product. EMC compliance to appropriate standards must be verified at the system level. This product is for sale to OEMs and System Integrators, including through Distribution Channels. It is not intended for sale to End Users.

Pin Assignments

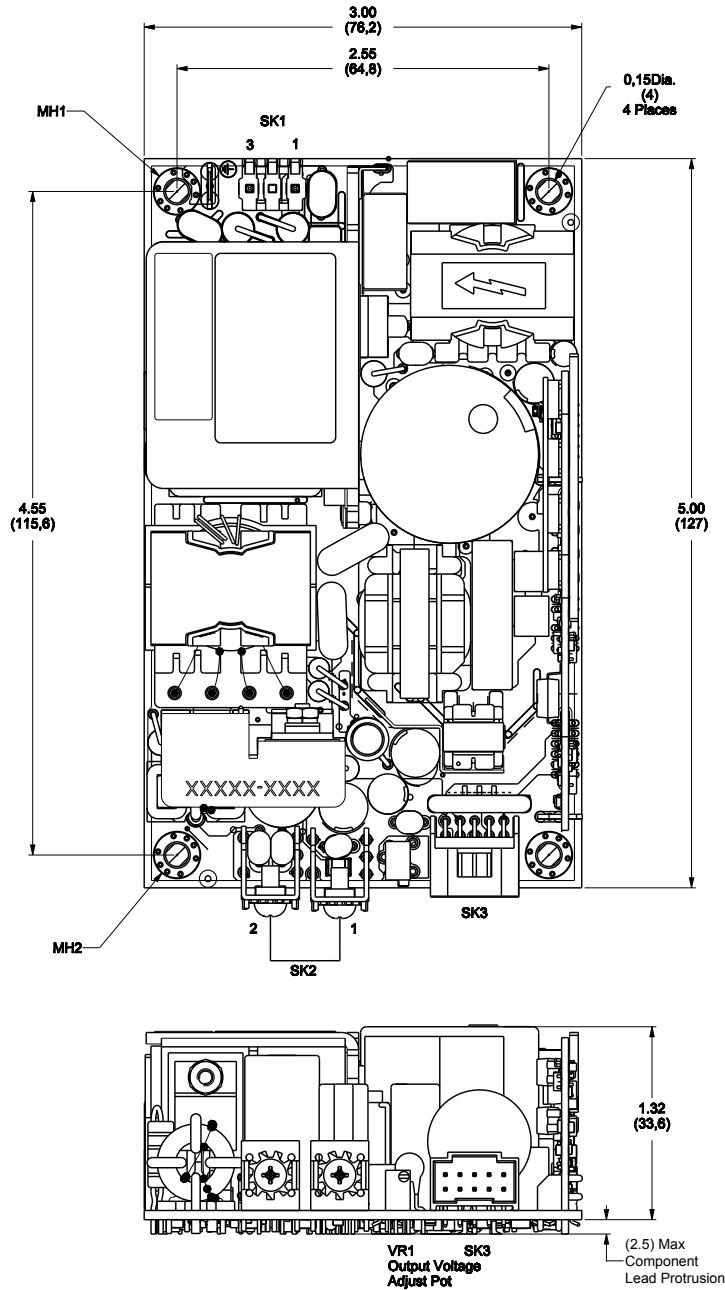
| Connector | LPS200-M | |
|-----------|----------|---------------------------|
| SK1 | Pin 1 | Neutral |
| | Pin 3 | Line |
| SK2 | TB-1 | Common |
| | TB-2 | Main output |
| SK3 | Pin 1 | +V1 Remote sense |
| | Pin 2 | -V1 Remote sense |
| | Pin 3 | N/C |
| | Pin 4 | N/C |
| | Pin 5 | +Power fail |
| | Pin 6 | Common |
| | Pin 7 | N/C |
| SK3 | Pin 8 | Common |
| | Pin 9 | +12 V Fan |
| | Pin 10 | +12 Fan Return (isolated) |

Mating Connectors

| | |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| AC Input (SK1) | Molex 09-50-8031 (connector) PINS: 08-52-0072 |
| AC Ground | Molex 01-90020001 |
| DC Output (SK2) | Molex 19141-0058 or 19099-0044 Spade lug based on Cable Ampacity/AWG |
| Control Sense (SK3) | Molex 90142-1110 (USA) PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8 or Landwin: 2580S1003 PINS: 2583T021V |
| Artesyn Embedded Power Connector Kit #70-841-020, includes all of the above. | |

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02" (± 0.5 mm)
3. Mounting holes MH1 and MH2 should be grounded for EMI purposes.
4. Mounting hole MH1 is safety ground connection.
5. Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.
6. This power supply requires mounting on metal standoffs 0.20" (5m) in height.
7. Warranty: 2 years
8. Weight: 0.75 lb/0.34 kg

Mechanical Drawing



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LPS200-M DS 02Jun2020



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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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