

## LPT100-M Series

130 Watts

### Data Sheet

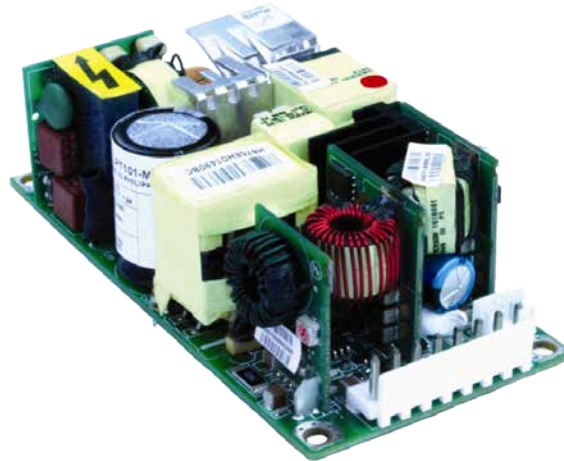
**Total Power:** 130 Watts  
**Input Voltage:** 90 - 264 Vac  
**# of Outputs:** Triple

### SPECIAL FEATURES

- Medical and ITE safeties
- Active power factor correction
- 2" x 4" 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
- LPX100 enclosure kit available
- RoHS compliant

### SAFETY

- TUV 60950, 60601-1
- UL 60950, 60601-1
- CSA 60950, 60601-1
- NEMKO 60950, 60601-1
- AUSTEL 60950, 60601-1
- CB Certificate & report
- CE Mark (LVD)



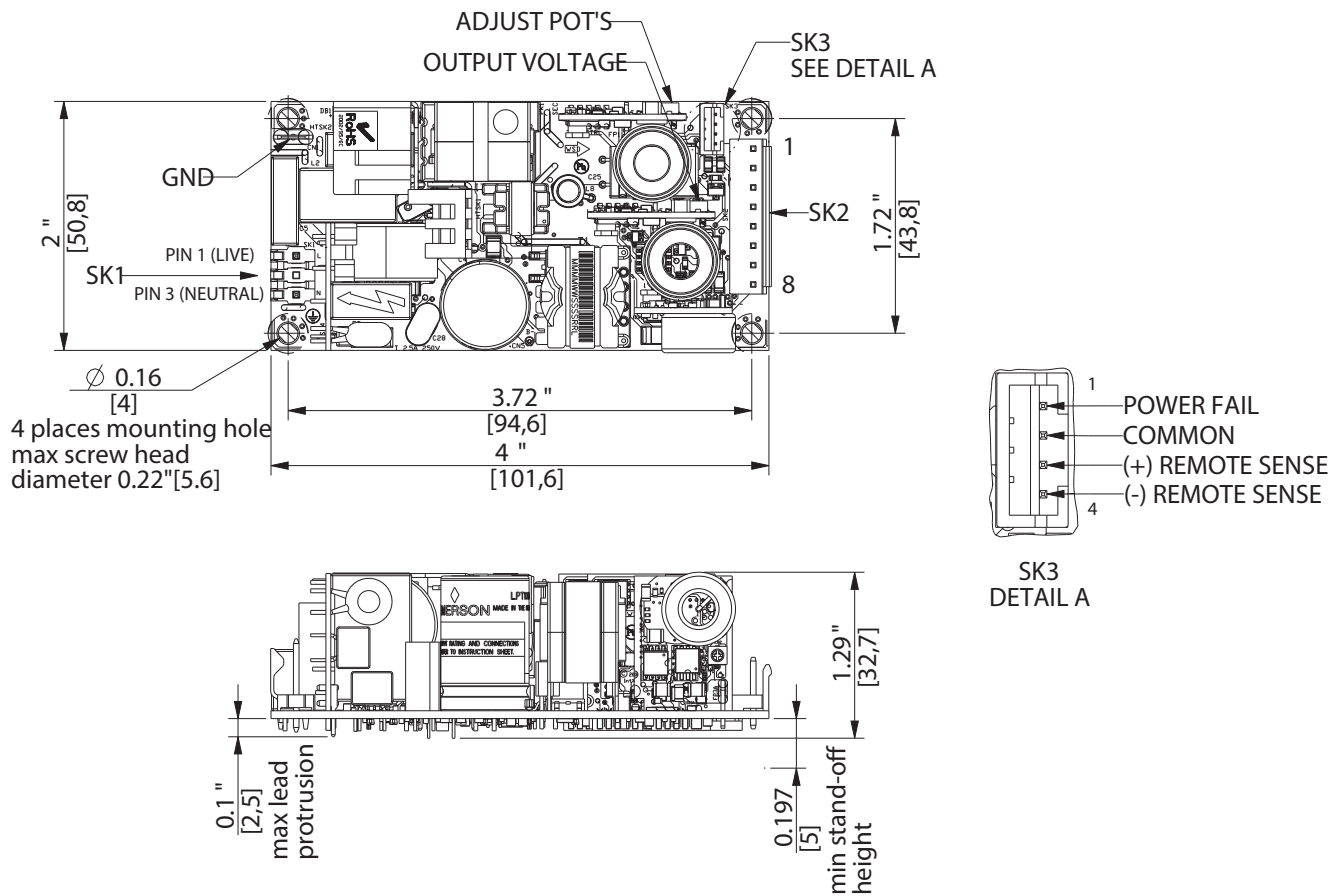
### Electrical Specifications

| Input                         |   |
|-------------------------------|---|
| Input range                   | 90 - 264 Vac; 127 - 300 Vdc   |
| Frequency                     | 47 - 63 Hz  |
| Inrush current                | 50 A max., cold start @ 25 °C   |
| Efficiency                    | 82% typical at full load  |
| EMI/RFI                       | FCC Class B conducted; CISPR22 Class B conducted; EN55022 Class B conducted; VDE0878PT3 Class B conducted                                   |
| Safety ground leakage current | 275 µA @ 50/60 Hz, 264 Vac input  |
| Output                        |   |
| Maximum power                 | 130 W with 200 LFM forced air   |
| Adjustment range              | All outputs adjustable: -20%, +10%, except for +24V output on LPT104-M which will be -10%, +20% and 3.3 V output on the LPT101-M +10%, -15% |
| Hold-up time                  | 10 ms @ 130 W load, 120 Vac input   |
| Overload protection           | Short circuit protection on all outputs. Case overload protected @ 110 - 160% above rating for V1 & V2, 150 - 250% for V3                   |
| Overvoltage protection        | 15 - 35% above nominal output   |
| Logical Control               |   |
| Power failure                 | Active LowTTL 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 °C 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 90% RH, non-operating, non-condensing 10% - 95%                 |
| Vibration                       | IEC68-2-6 to the levels of IEC721-3-2  |
| MTBF calculated                 | 583,000 hours at full load and 25 °C ambient conditions. 230 Vac input, Bellcore                 |

### Mechanical Drawing



### Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load with 30CFM Forced Air | Peak Load | Regulation <sup>2</sup> | Ripple P/P (PARD) <sup>3</sup> |
|--------------|----------------|--------------|------------------------------------|-----------|-------------------------|--------------------------------|
| LPT101-M     | +3.3 V         | 0 A          | 18 A                               | 20 A      | ±2%                     | 50 mV                          |
|              | +5 V           | 0 A          | 9 A                                | 10 A      | ±5%                     | 50 mV                          |
|              | +12 V          | 0 A          | 2.3 A                              | 2.3 A     | ±5%                     | 120 mV                         |
| LPT102-M     | +5 V           | 0 A          | 18 A                               | 20 A      | ±2%                     | 50 mV                          |
|              | +12 V          | 0 A          | 9 A                                | 10 A      | ±5%                     | 120 mV                         |
|              | -12 V          | 0 A          | 2 A                                | 2 A       | ±5%                     | 120 mV                         |
| LPT103-M     | +5 V           | 0 A          | 18 A                               | 20 A      | ±2%                     | 50 mV                          |
|              | +15 V          | 0 A          | 7.2 A                              | 8 A       | ±5%                     | 150 mV                         |
|              | -15 V          | 0 A          | 1.5 A                              | 2 A       | ±5%                     | 150 mV                         |
| LPT104-M     | +5 V           | 0 A          | 18 A                               | 20 A      | ±2%                     | 50 mV                          |
|              | +24 V          | 0 A          | 3 A                                | 3.5 A     | ±7%                     | 240 mV                         |
|              | +12 V          | 0 A          | 2.3 A                              | 2.3 A     | ±5%                     | 120 mV                         |

1. Peak current lasting < 15 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  | LPT100-M |                |
|------------|----------|----------------|
| <b>SK1</b> | PIN 1    | Live           |
|            | PIN 3    | Neutral        |
|            | PIN 2    | V1out          |
| <b>SK2</b> | PIN 1    | V1out          |
|            | PIN 2    | V1out          |
|            | PIN 3    | GND            |
|            | PIN 4    | GND            |
|            | PIN 5    | GND            |
| <b>SK3</b> | PIN 6    | GND            |
|            | PIN 7    | V2out          |
|            | PIN 8    | V3out          |
|            | PIN 1    | Power Fail     |
|            | PIN 2    | GND            |
|            | PIN 3    | + Remote Sense |
|            | PIN 4    | - Remote Sense |

### Mating Connectors

|   |   |
|---|---|
| <b>AC Input (SK1)</b>   | Molex 09-50-3031<br>PINS: 08-52-0072                                    |
| <b>AC Ground</b>  | Molex 01-90020001   |
| <b>DC Output (SK2)</b>  | JST VHR-8N<br>PINS: SVH-21T-P1.1  |
| <b>Remote Sense (SK3)</b>   | JST PHR-4; PINS: SPH-002T-PO.5S<br>OR<br>LANDWIN 2001S0400; PINS: 2005T |
| Artesyn Embedded Power Connector Kit #70-841-026, includes all of the above |   |

#### Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is  $\pm 0.2$ ".
3. All mounting holes should be grounded for EMI purpose
4. Mounting M1 is safety ground connection
5. This power supply requires mounting on metal standoffs 0.20" (5 m) in height.
6. For DC input an external DC safety rated fuse must be used.
7. Warranty: 2 year
8. Weight: 0.44 lb. / 0.20 kg

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LPT100-M DS 12Dec2019

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