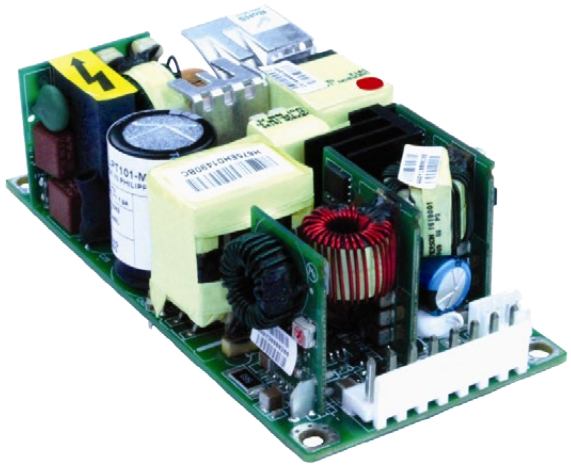
POWER

LPT100-M Series

130 Watts

Data Sheet

Total Power: 80 - 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

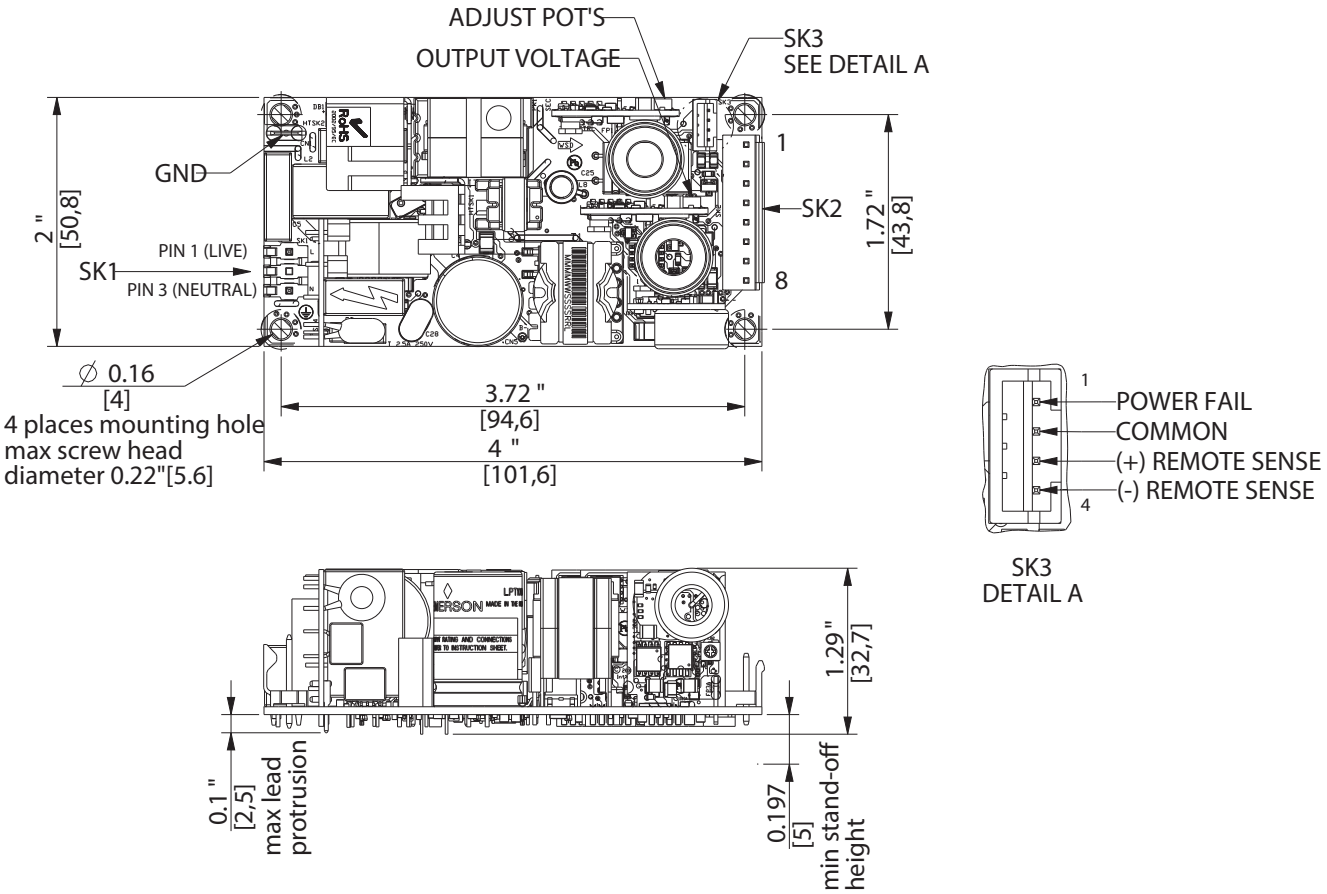
Input	
Input range	90 - 264 Vac; 127 - 300 Vdc
Frequency	47 - 63 Hz
Inrush current	50 A max., cold start @ 25 °C
Efficiency	82% typical at full load
EMI/RFI	FCC Class B conducted; CISPR22 Class B conducted; EN55022 Class B conducted; VDE0878PT3 Class B conducted
Safety ground leakage current	275 µA @ 50/60 Hz, 264 Vac input
Output	
Maximum power	80 W for convection; 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.

ARTESYN™
EMBEDDED TECHNOLOGIES

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 Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load	Regulation[2]	Ripple P/P (PARD)[3]
LPT101-M	+3.3 V	0 A	13 A	18 A	20 A	±2%	50 mV
	+5 V	0 A	5 A	9 A	10 A	±5%	50 mV
	+12 V	0 A	1 A	2.3 A	2.3 A	±5%	120 mV
LPT102-M	+5 V	0 A	13 A	18 A	20 A	±2%	50 mV
	+12 V	0 A	5 A	9 A	10 A	±5%	120 mV
	-12 V	0 A	1 A	2 A	2 A	±5%	120 mV
LPT103-M	+5 V	0 A	13 A	18 A	20 A	±2%	50 mV
	+15 V	0 A	4 A	7.2 A	8 A	±5%	150 mV
	-15 V	0 A	1 A	1.5 A	2 A	±5%	150 mV
LPT104-M	+5 V	0 A	13 A	18 A	20 A	±2%	50 mV
	+24 V	0 A	1.5 A	3 A	3.5 A	±7%	240 mV
	+12 V	0 A	1 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	
SK1	PIN 1	Live
	PIN 3	Neutral
SK2	PIN 1	V1out
	PIN 2	V1out
	PIN 3	GND
	PIN 4	GND
	PIN 5	GND
	PIN 6	GND
	PIN 7	V2out
	PIN 8	V3out
SK3	PIN 1	Power Fail
	PIN 2	GND
	PIN 3	+ Remote Sense
	PIN 4	- Remote Sense

Mating Connectors

AC Input (SK1)	Molex 09-50-3031 PINS: 08-52-0072
AC Ground	Molex 01-90020001
DC Output (SK2)	JST VHR-8N PINS: SVH-21T-P1.1
Remote Sense (SK3)	JST PHR-4; PINS: SPH-002T-PO.5S OR LANDWIN 2001S0400; PINS: 2005T
Artesyn Embedded Technologies 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 ±.02".
3. All mounting holes should be grounded for EMI purpose
4. Mounting M1 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" (5 m) in height.
7. For DC input an external DC safety rated fuse must be used.
8. Warranty: 2 year
9. Weight: 0.44 lb. / 0.20 kg

WORLDWIDE OFFICES

Americas
2900 S.Diablo Way
Tempe, AZ 85282
USA
+1 888 412 7832

Europe (UK)
Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
+44 (0) 1384 842 211

Asia (HK)
14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
+852 2176 3333

ARTESYN™
EMBEDDED TECHNOLOGIES

www.artesyn.com

Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. © 2016 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

For more information: **www.artesyn.com/power**
For support: **productsupport.ep@artesyn.com**