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Data Sheet

August 15, 2026

EMERSON / ARTESYN TECHNOLOGIES

Emerson / Artesyn Technologies LPS202-M Power Supply

Emerson / Artesyn Technologies DC Power Supplies. Voltage: 90–264 VAC, Current: 50 A max (cold start).



MODEL

Emerson / Artesyn
Technologies
LPS202-M

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

LPS202-M

LISTING

<https://aumictechlabs.com/products/lps202-m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Emerson / Artesyn Technologies LPS202-M is an open-frame AC-DC power supply engineered for integration into space-constrained industrial, telecommunications, and medical equipment. Its compact 3" × 5" footprint and sub-1U height (1.5") enable deployment in systems requiring small form factors without sacrificing reliability. The unit delivers 5 V main output with 100 W convection-cooled capacity or 200 W with 30 CFM forced air cooling, supported by a 12 V @ 1 A isolated auxiliary fan output. Active Power Factor Correction (PFC) achieves 0.99 typical efficiency across 90–264 VAC and 120–300 VDC inputs at 47–63 Hz. ITE and medical safety approvals cover non-patient contact and non-patient critical applications. Technical Specifications Input Voltage: 90–264 VAC; 120–300 VDC Frequency: 47–63 Hz Inrush Current: 50 A max (cold start, 25°C) Power Factor: 0.99 typical (Active PFC) Internal Fusing: 5 A, 250 Vac

(both line and neutral) Output Main Output: 5 V $\pm 10\%$ minimum adjustment Power Rating: 100 W convection; 200 W @ 30 CFM forced air Current Capacity: 20 A convection; 40 A forced air; 44 A peak (< 30 sec, max 10% duty) Auxiliary Output: 12 V @ 1 A isolated Ripple (PARD): 50 mV peak-to-peak Efficiency: 86% typical at full load Hold-up Time: 16 ms min (250 W load, 120 Vac) Protection & Control Overload: 110–160% above rating Short Circuit: All outputs protected Overvoltage Protection: 15–50% above nominal; latches until AC recycle Thermal Overload: Yes Remote Sense: ± 0.5 V lead drop compensation; reverse connection protected Power Fail Signal: Open collector; high 100–500 msec after output loss; low ≥ 6 msec before regulation loss Environmental Safety Ground Leakage: 275 μ A @ 50/60 Hz, 264 Vac Enclosure: LPX200 kit available Key Features Wide input range accommodates global AC and DC sources Minimal inrush current (50 A max) reduces infrastructure demands Dual-cooling option (convection and forced air) scales performance to application needs Power fail prediction enables graceful shutdown sequencing Isolated auxiliary output supports fan or external logic circuits Typical Applications Industrial control systems, telecommunications infrastructure, medical non-patient-critical equipment, embedded systems with limited thermal budgets. Compatibility & Integration Open-frame design supports custom mechanical integration. LPX200 enclosure kit available for standalone deployment. Remote sense input and power fail signal provide system-level monitoring and coordination.

Features & description

From manufacturer datasheet

Built-in ClassBEMI filter

Technical Specifications Model: LPS202-M Series: LPS200-M Instrument Type: Single output AC-DC switching power supply medical ITE Output Voltage Nominal: 5 V Minimum Load: 0 A Maximum Load Convection: 20 A Maximum Load 30 Cfm Forced Air: 40 A Peak Load: 44 A lasting less than 30 s at 10 percent maximum duty Regulation: plus or minus 2 percent at 25 C Ripple Noise Pard: 50 mV p-p Maximum Power Convection: 100 W Maximum Power Forced Air: 200 W Adjustment Range Main: plus or minus 10 percent minimum Fan Output: 12 V at 0.5 A convection or 1 A forced air isolated plus or minus 10 percent Input Voltage Ac: 90 to 264 Vac Input Voltage Dc: 120 to 300 Vdc Input Frequency: 47 to 63 Hz Inrush Current: 50 A maximum cold start at 25 C Efficiency Typical: 86 percent at full load Power Factor Typical: 0.99 Safety Ground Leakage: 275 uA at 50/60 Hz 264 Vac Hold Up Time: 16 ms at 250 W class load 120 Vac input per series table Overload Protection: 110 to 160 percent above rating Overvoltage Protection: 15 to 50 percent above nominal Power Fail Timing: high 100 to 500 ms after main then low at least 6 ms before loss of regulation Remote Sense Compensation: 0.5 V lead drop minimum Operating Temperature: 0 to 50 C derate 2.5 percent perCfrom 50 to 70 C startup -20 C

LPS202M Characteristics / Specifications

PARAMETER	VALUE
Model	LPS202-M
Series	LPS200-M
Instrument Type	Single output AC-DC switching power supply medical ITE
Output Voltage Nominal	5 V
Minimum Load	0 A
Maximum Load Convection	20 A
Maximum Load 30 Cfm Forced Air	40 A
Peak Load	44 A lasting less than 30 s at 10 percent maximum duty
Regulation	plus or minus 2 percent at 25 C
Ripple Noise Pard	50 mV p-p
Maximum Power Convection	100 W
Maximum Power Forced Air	200 W
Adjustment Range Main	plus or minus 10 percent minimum
Fan Output	12 V at 0.5 A convection or 1 A forced air isolated plus or minus 10 percent
Input Voltage Ac	90 to 264 Vac
Input Voltage Dc	120 to 300 Vdc
Input Frequency	47 to 63 Hz
Inrush Current	50 A maximum cold start at 25 C
Efficiency Typical	86 percent at full load
Power Factor Typical	0.99
Safety Ground Leakage	275 uA at 50/60 Hz 264 Vac
Hold Up Time	16 ms at 250 W class load 120 Vac input per series table
Overload Protection	110 to 160 percent above rating
Overvoltage Protection	15 to 50 percent above nominal

PARAMETER	VALUE
Power Fail Timing	high 100 to 500 ms after main then low at least 6 ms before loss of regulation
Remote Sense Compensation	0.5 V lead drop minimum
Operating Temperature	0 to 50 C derate 2.5 percent perCfrom 50 to 70 C startup -20 C
Storage Temperature	-40 to plus 85 C
Humidity Operating	10 to 95 percent RH non-condensing
Mtbf Calculated	1 million hours at full load 25 C 230 Vac Bellcore
Mass	0.75 lb / 0.34 kg
Form Factor	3 × 5 × 1.32 inch
Emi Filter	FCC ClassBCISPR22 ClassBEN55022 ClassBconducted
Humidity	Operating: 10 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
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Form Factor	3 × 5 × 1.32 inch
Emi Filter	FCC ClassBCISPR22 ClassBEN55022 ClassBconducted Notes From Advanced Energy Artesyn LPS200-M series datasheet ordering row LPS202-M. Series hold-up and some environmental figures are stated at the 250 W family rating; LPS202-M continuous ratings are 100/200 W per model footnotes.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Advanced Energy Artesyn LPS200-M series datasheet ordering row LPS202-M. Series hold-up and some environmental figures are stated at the 250 W family rating; LPS202-M continuous ratings are 100/200 W per model footnotes.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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30-day returns
NAICS 423690 · 811210 · 541380
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.