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Data Sheet

August 15, 2026

EMERSON / ARTESYN / ASTEC

Emerson / Artesyn / Astec LPS255-CF Power Supply

The Emerson/Artesyn/Astec LPS255-CF is a power supply designed for various electronic applications. It provides reliable and efficient power conversion. With its compact form factor and solid design, it is suitable for integration into a wide range of systems.

**MODEL****Emerson / Artesyn
/ Astec LPS255-CF****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****LPS255-CF****LISTING**<https://aumictechlabs.com/products/lps255-cf-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Emerson/Artesyn/Astec LPS255-CF is a 250 W component power supply engineered for OEM and system integrator integration. This chassis-mount unit delivers 24 V (adjustable 24–48 V) output with active power factor correction and built-in EMI filtration. The -CF suffix indicates an optional top-mounted fan cover requiring 30 CFM forced air cooling. Input accepts 85–264 Vac or 120–300 Vdc across 47–440 Hz. Designed for professional installation into larger systems, the LPS255-CF is not rated for convection cooling and not intended for standalone operation.

Technical Specifications Output Power: 250 W @ 30 CFM forced air cooling Output Voltage: 24 V nominal, adjustable 24–48 V (2:1 ratio) Output Current: 10.4 A maximum; 0.32 A minimum load; 12.5 A peak Input Voltage: 85–264 Vac; 120–300 Vdc Input Frequency: 47–440 Hz Efficiency: 75% typical at full load Inrush Current: 20 A maximum, cold start @ 25 °C Switching Frequency: 120

kHz Hold-up Time: 20 ms @ 250 W load, 115 VAC nominal input Safety Ground Leakage: < 0.5 mA @ 50/60 Hz, 264 Vac Supervisory Outputs: 5 V @ 100 mA regulated; 12 V @ 500 mA Key Features Active power factor correction per IEC EN61000-3-2 EMI filtering meets FCC Class B, CISPR 22 Class B, EN55022 Class B, VDE 0878 PT3 Class B Remote sense and remote inhibit capability Single-wire current sharing support Power fail signal (TTL logic, 50–150 ms response) DC power good signal (TTL logic) Overvoltage, overload, short-circuit, and thermal protection RoHS and lead-free compliant Typical Applications System integration, telecom equipment, industrial control systems, and distributed power architectures where forced-air cooling is available. Compliance & Integration Approvals: VDE 60950, UL 60950, CSA 60950, NEMKO 60950, CB Certificate 2186, CE Mark (LVD). Dimensions: 262.0 mm L × 127.0 mm W × 50.8 mm H. EMC compliance must be verified at system level.

LPS255CF Characteristics / Specifications

PARAMETER	VALUE
Model	LPS255-CF
Series	LPS250
Instrument Type	Single output AC-DC switching power supply with top fan cover
Output Voltage Nominal	24 V adjustable 24 to 48 V
Minimum Load	0.32 A
Maximum Load 30 Cfm Forced Air	10.4 A
Peak Load	12.5 A lasting less than 30 s at 10 percent maximum duty
Regulation	plus or minus 2 percent at 25 C including initial tolerance line and load
Ripple Noise Pard	240 mV p-p maximum 20 MHz bandwidth
Input Voltage Ac	85 to 264 Vac
Input Voltage Dc	120 to 300 Vdc
Input Frequency	47 to 440 Hz
Inrush Current	20 A maximum cold start at 25 C
Efficiency Typical	75 percent at full load
Power Factor Typical	0.99
Safety Ground Leakage	less than 0.5 mA at 50/60 Hz 264 Vac
Maximum Power With Cover	250 W with 30 CFM forced air
Hold Up Time	20 ms at 250 W load 115 Vac nominal
Overload Protection	case overload 110 to 145 percent above peak rating
Overvoltage Protection Other Outputs	10 to 25 percent above nominal
Switching Frequency	120 kHz
Supervisory Output 5 V	100 mA regulated
Supervisory Output 12 V	500 mA
Operating Temperature	0 to 50 C ambient derate 2.5 percent perCfrom 50 to 70 C
Storage Temperature	-40 to plus 85 C

PARAMETER	VALUE
Temperature Coefficient	plus or minus 0.04 percent perCHumidity Operating: 5 to 95 percent non-condensing
Vibration	0.7 G peak 5 Hz to 500 Hz operational
Mtbf Demonstrated	greater than 550000 hours at full load 25 C
Mass	2.6 lb / 1.19 kg
Remote Sense Compensation	0.5 V lead drop minimum
Power Fail Timing	TTL high 50 to 150 ms after output then low at least 4 ms before loss of regulation
Emi Filter	FCC ClassBCISPR 22 ClassBEN55022 ClassBconducted and radiated
Bandwidth	Input Voltage Ac: 85 to 264 Vac
Humidity	Operating: 5 to 95 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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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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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.