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Data Sheet

August 14, 2026

AMREL

Amrel SPS8-800

The Amrel SPS8-800 is a 6.6 kW programmable DC power supply engineered for high-current applications in benchtop and automated test environments. It delivers 0–8 Vdc at 0–800 Adc with 90% efficiency and exceptional output stability. The unit combines automatic CV/CC mode switching with comprehensive protection OVP, OCP, OTP, and UVP - and supports parallel/series operation for scaled current or voltage delivery across up to 31 channels. Typical Applications Automated test equipment, component characterization, burn-in testing, and high-current load simulation where output stability and precise regulation are critical. Compatibility & Integration 3U form factor, 19" rack mount. Input voltage: 208/220 VAC, 3-phase, 50–60 Hz standard; optional 440/480 VAC or 380/415 VAC configurations. Units ship configured for 480 V operation. Aumictech offers NIST-traceable calibration and repair for th



MODEL Amrel SPS8-800	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU SPS8-800	LISTING https://aumictechlabs.com/products/sps8-800-3/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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Power Output: 6.6 kW Voltage Range: 0–8 Vdc Current Range: 0–800 Adc Efficiency: 90% typical
Line and Load Regulation: 0.10% combined Stability: 0.10% over 8 hours (post 30-minute warm-up)
Transient Response: 10.0 ms recovery to $\pm 2\%$ step regulation at 30% load step Temperature Coefficient: 0.02% /°C (voltage); 0.03% /°C (current) Output Isolation: +600 V Power Factor: >0.9

Key Features Dual-encoder and multi-function keypad front panel control with closed-case calibration SCPI command set support via standard GPIB IEEE-488/RS-232 interfaces; optional Ethernet and USB V.LIST and I.LIST programmable stepping modes - up to 20 steps across 4 profiles External analog programming input Programmable OVP and OCP thresholds via front panel and computer interfaces Redundant over-temperature protection with TTL fault output and remote inhibit Remote sensing to eliminate lead-drop measurement errors Optional output isolation and polarity reversal relays Master/slave configuration for parallel/series operation up to 31 channels

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Compatibility & Integration 3U form factor, 19" rack mount. Input voltage: 208/220 VAC, 3-phase, 50–60 Hz standard; optional 440/480 VAC or 380/415 VAC configurations. Units ship configured for 480 V operation.

SPS8800 Characteristics / Specifications

PARAMETER	VALUE
Model	SPS8-800
Instrument Type	Programmable switch mode DC power supply
Output Voltage Range	0 Vdc to 8 Vdc
Output Current Range	0 Adc to 800 Adc
Output Power	6.6 kW
Ripple Voltage	40 mVrms
Cabinet Height Class	3U class SPS 6.6 kW models
Line Regulation Voltage Mode	plus or minus 0.004 percent of full scale
Line Regulation Current Mode	plus or minus 0.02 percent of full scale
Load Regulation Voltage Mode	plus or minus 0.01 percent of full scale
Load Regulation Current Mode	plus or minus 0.04 percent of full scale
Stability	0.10 percent for 8 hours after 30 minute warm up
Load Transient Response	2 ms to recover within plus or minus 1 percent of regulated output for 50 percent to 100 percent or 100 percent to 50 percent step load
Efficiency	greater than 86 percent
Temperature Coefficient	0.04 percent perCof maximum output current
Input Voltage Options	208/240 Vac 50 to 400 Hz 3 phase; 380/415 Vac 50 to 400 Hz 3 phase; 440/480 Vac 50 to 400 Hz 3 phase factory configured
Isolation Input To Ground	plus or minus 2500 Vac maximum
Isolation Output To Ground	plus or minus 1000 Vdc maximum
Power Factor	greater than 92 percent at maximum power
Operating Temperature	0 C to 50 C
Storage Temperature	-25 C to +85 C
Remote Sense Limit	3 percent maximum voltage drop from output terminals to load
Digital Programming Accuracy Voltage	plus or minus 0.50 percent of full scale
Digital Programming Accuracy Current	plus or minus 0.75 percent of full scale

PARAMETER	VALUE
Overvoltage Trip Accuracy	plus or minus 0.50 percent of full scale
Overcurrent Trip Accuracy	plus or minus 0.75 percent of full scale
Digital Readback Accuracy Voltage	plus or minus 0.50 percent of full scale
Digital Readback Accuracy Current	plus or minus 0.75 percent of full scale
Dimensions SPS 3p3 To 15 Kw	5.25 inHx 19 inWx 24 inD Notes Numeric rows from AMREL HPS and SPS (3.3 kW to 45 kW) programmable switch-mode datasheet: SPS8-800 model row (8 V, 800 A, 40 mVrms) and Common Specifications block. 6.6 kW and 3U class also appear on AMREL SPS selector tables listing SPS8-800.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 C to +85 C
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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 for line and load regulation, programming accuracy, and environmental limits.

Applications

High-current low-voltage burn-in, semiconductor and component validation, magnet and laser-diode drive, and automated test where 800 A at up to 8 V is required in a 3U-class SPS chassis.

Key Features

Automatic constant voltage and constant current crossover

Remote sense with up to 3 percent line-drop compensation

Digital programming and readback with SCPI-class remote control options

OVP and OCP trip setpoints with stated full-scale accuracies

Master/slave and multi-interface options on the SPS family configurator

Technical 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.