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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI EMS80-30

Lambda EMI EMS80-30 Switch Mode DC Supply 0-80 V 0-30 A The Lambda EMI / TDK-Lambda EMS EMS80-30 is a high-frequency switch-mode programmable DC supply rated 0 to 80 V and 0 to 30 A (2400 W). EMS units operate as constant-voltage / constant-current sources with automatic crossover, analog programming, and optional RSTL RS-232/IEEE-488. Family literature cites 0.1% regulation class, true zero V/I adjust, soft start, and master-slave series/parallel operation. Verified 80 V catalog neighbors include EMS80-25 (80 V, 25 A, 2000 W) and EMS80-60 (80 V, 60 A, 4800 W). The Lambda EMI / TDK-Lambda EMS EMS80-30 is a high-frequency switch-mode programmable DC supply rated 0 to 80 V and 0 to 30 A (2400 W). EMS units operate as constant-voltage / constant-current sources with automatic crossover, analog programming, and optional RSTL RS-232/IEEE-488. Family literature cites 0.1% regulation class, true zero V/I adjust, soft start, and master-slave series/parallel operation. Verified 80 V catalog neighbors include EMS80-25 (80 V, 25 A, 2000 W) and EMS80-60 (80 V, 60 A, 4800 W). 80 V process, magnet, and ATE DC; EMS analog-programmed racks.

**MODEL****Lambda / TDK /
EMI EMS80-30****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****EMS80-30****LISTING**<https://aumictechlabs.com/products/ems80-30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TDK-Lambda EMS80-30 is a 1000 W DC power supply delivering 80 V at 30 A, engineered for industrial test, burn-in, and laboratory applications requiring stable, regulated output. This unit

combines tight line and load regulation with low output ripple, soft-start input protection, and optional programmability to meet demanding system integration requirements. Technical Specifications Output: 1000 W, 80 VDC, 30 A Line regulation: 0.1% Load regulation: 0.1% Output ripple: 100 mV peak-to-peak (carrier) AC input: 105–125 VAC @ 18.8 A or 190–253 VAC @ 10.4 A (47–63 Hz) Voltage mode: Load changes up to 100% produce output deviation less than 0.1% of maximum voltage Current mode: Load changes up to 100% produce output deviation less than 0.1% of maximum current Key Features Soft-start circuitry limits inrush current to levels below full-load draw during power transitions Overvoltage protection standard on this model Remote sensing capability for applications up to 300 VDC; twisted leads recommended, shielded leads required in high-field environments with shield grounded at terminal TB1/J1-14 Fully programmable via analog programming or optional RSTL digital interface Air-cooled design optimized for continuous operation Typical Applications Laboratory test benches and system validation Burn-in testing for semiconductor and component qualification OEM integration into larger systems Industrial process equipment requiring stable, regulated DC power Compatibility & Integration Compact footprint supports integration into existing industrial and laboratory frameworks. Input voltage selection (single-phase 105–253 VAC) accommodates both North American and international installations. Single output configuration simplifies control and monitoring without requiring multi-channel complexity.

EMS80 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS80-30
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	Switch Mode Programmable DC Power Supply
Series	EMS
Alias	EMS80-30; EMS 80-30; EMI EMS80-30; TDK-Lambda EMS80-30
Rated Output Voltage	0 to 80 Vdc
Rated Output Current	0 to 30 A
Rated Output Power	2400 W
Output Mode	constant voltage / constant current automatic crossover
Topology	high-frequency switch-mode EMS family
Voltage Adjust	true zero voltage and current adjustability (EMS family)
Transient Response	650 us class (EMS family literature)
Remote Analog	standard analog programming
Digital Option	RSTL RS-232 / IEEE-488 programmer
Catalog 10T	10-turn current control
Catalog LB	lock bushing
Catalog TC	output terminal covers
Catalog CE	CE mark path on selected AC inputs
Series Parallel	series or parallel master-slave operation
Soft Start	yes
Protection	overcurrent and overvoltage
Form	rackmount
Programming Common	analog programming common with TCR, EMHP, and ESS series
UL Note	U/L recognized on EMS family sheets
Regulation Family	0.1% class EMS literature

PARAMETER	VALUE
Neighbor EMS80	0-80 V, 0-60 A, 4800 W (EMS 80-60-2-D)
Identity Rule	this listing is 30 A, not the 25 A or 60 A 80 V neighbors Notes Specs from TDK/EMI EMS 80-30 decoder (80 V, 30 A, 2400 W) and EMS family features. Verified 80 V neighbors are EMS80-25 and EMS80-60. Confirm dash codes and RSTL on the nameplate.

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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UL Note	U/L recognized on EMS family sheets

Specifications

PARAMETER	VALUE
Regulation Family	0.1% class EMS literature
Neighbor EMS80 25	0-80 V, 0-25 A, 2000 W
Neighbor EMS80 60	0-80 V, 0-60 A, 4800 W (EMS 80-60-2-D)

Identity Rule: this listing is 30 A, not the 25 A or 60 A 80 V neighbors

Notes

Specs from TDK/EMI EMS 80-30 decoder (80 V, 30 A, 2400 W) and EMS family features. Verified 80 V neighbors are EMS80-25 and EMS80-60. Confirm dash codes and RSTL on the nameplate.

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.