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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS30

Lambda EMI EMS30 Series 30 V Switch Mode DC Power Supply Family EMS30 denotes the Lambda EMI / TDK-Lambda EMS 30 V switch-mode family. A verified catalog member is EMS30-165-2-D at 0 to 30 V, 0 to 165 A, 4950 W. All EMS models are CV/CC automatic-crossover switchers with analog programming and optional RSTL digital control. Exact current is on the faceplate after EMS30-. 30 V process, magnet, and ATE DC; EMS analog-programmed racks. EMS30 denotes the Lambda EMI / TDK-Lambda EMS 30 V switch-mode family. A verified catalog member is EMS30-165-2-D at 0 to 30 V, 0 to 165 A, 4950 W. All EMS models are CV/CC automatic-crossover switchers with analog programming and optional RSTL digital control. Exact current is on the faceplate after EMS30-. 30 V process, magnet, and ATE DC; EMS analog-programmed racks.



MODEL

**Lambda / TDK
EMS30**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMS30

LISTING

<https://aumictechlabs.com/products/ems30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TKD EMI EMS30-series is an encapsulated AC-DC power supply engineered for industrial, embedded systems, and laboratory test and burn-in applications. These units accept wide-range AC input with stable DC outputs, integrated overvoltage protection (on models ≤ 300 VDC), adjustable overcurrent limiting, and short-circuit protection. Standard soft-start circuitry minimizes AC inrush current during turn-on and power reapplication. Constant voltage/constant current operation with automatic crossover, remote sensing, and fast transient response make

these supplies suitable for precision test benches and embedded integration in space-constrained designs. Technical Specifications Input Voltage: 85–265 VAC (standard); 105–125 VAC or 190–253 VAC (600 W / 1000 W single-phase); 170–265 VAC (3-phase 208 VAC); 342–460 VAC (3-phase 400 VAC); model-specific ranges up to 374–456 VAC Frequency: 47–63 Hz Output Power: 30 W to 5000 W (model dependent) Voltage: 0–15 VDC to 0–40 VDC (EMS30 range) Current: Up to 165 A (model dependent) Efficiency: 70–87% Line Regulation: 0.1% Load Regulation: 0% at 100% Ripple & Noise: 75–250 mV peak-to-peak Response Time: 650 μ s (20 VDC models) Protection & Control Overvoltage Protection: Standard (models $\leq$ 300 VDC output) Overcurrent Protection: Adjustable current limit Short-Circuit Protection: Yes CV/CC Operation: Automatic crossover Soft Start: Standard on all EMS models Remote Sensing: Standard Key Features Compact encapsulated design for embedded and OEM integration Wide input voltage acceptance across single-phase and three-phase configurations Fast transient response (650 μ s settling) Adjustable output current limiting for custom protection schemes Soft-start reduces AC line stress on power-up Typical Applications Industrial power conditioning and control systems Laboratory test and burn-in stations Embedded DC supply for distributed architectures Precision measurement and instrumentation Compatibility & Integration Remote sensing capability enables compensation for load-side voltage drop. Constant current mode supports battery charging, electroplating, and current-source applications. Wide input ranges accommodate global power standards and generator-backed supplies.

EMS30 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS30
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Series	EMS
Alias	EMS30; EMS 30; Lambda EMS 30 V
Rated Output Voltage	0 to 30 Vdc (family)
Example EMS30 1	0-30 V, 0-165 A, 4950 W (EMS30-165-2-D)
Rated Output Current	encoded after EMS30- on the faceplate
Rated Power Class	30 V times nameplate amperes
Output Mode	CV/CC automatic crossover
Topology	high-frequency switch-mode
Voltage Adjust	true zero V/I adjustability
Remote Analog	standard
Digital Option	RSTL RS-232/IEEE-488
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	master-slave
Soft Start	yes
Protection	OCP and OVP
Programming Common	TCR, EMHP, ESS analog class
Form	rackmount
Regulation Family	0.1% class EMS literature
Transient Family	650 us class EMS literature

PARAMETER	VALUE
UL Note	U/L recognized family
Cooling	forced air rack EMS
Duty	continuous within EMS ratings
Identity Rule	do not copy EMS20-125 (20 V, 125 A) onto this 30 V family Notes EMS30 is a 30 V family listing. Current and wattage are faceplate- specific except the verified EMS30-165-2-D row at 165 A / 4950 W. Do not invent a current if the faceplate is unread.
Verified member EMS30-165-2-D	30 V, 165 A, 4950 W

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	
Specifications	
PARAMETER	VALUE
Model	EMS30
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMS
Alias	EMS30; EMS 30; Lambda EMS 30 V
Rated Output Voltage	0 to 30 Vdc (family)
Specifications	
PARAMETER	VALUE
Example EMS30 165	0-30 V, 0-165 A, 4950 W (EMS30-165-2-D)
Rated Output Current	encoded after EMS30- on the faceplate
Rated Power Class	30 V times nameplate amperes
Specifications	
PARAMETER	VALUE
Output Mode	CV/CC automatic crossover
Topology	high-frequency switch-mode
Voltage Adjust	true zero V/I adjustability
Specifications	
PARAMETER	VALUE
Remote Analog	standard
Digital Option	RSTL RS-232/IEEE-488
Catalog 10T	10-turn current control

Specifications

PARAMETER	VALUE
Catalog LB	lock bushing
Catalog TC	output terminal covers
Catalog CE	CE mark path on selected AC inputs

Specifications

PARAMETER	VALUE
Series Parallel	master-slave
Soft Start	yes
Protection	OCP and OVP

Specifications

PARAMETER	VALUE
Programming Common	TCR, EMHP, ESS analog class
Form	rackmount
Regulation Family	0.1% class EMS literature

Specifications

PARAMETER	VALUE
Transient Family	650 us class EMS literature
UL Note	U/L recognized family
Cooling	forced air rack EMS

Duty: continuous within EMS ratings

Identity Rule: do not copy EMS20-125 (20 V, 125 A) onto this 30 V family

Notes

EMS30 is a 30 V family listing. Current and wattage are faceplate-specific except the verified EMS30-165-2-D row at 165 A / 4950 W. Do not invent current if the faceplate is unread.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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.