

**Aumictech**

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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS10

Lambda EMI EMS10 Series 10 V Switch Mode DC Power Supply Family EMS10 denotes the Lambda EMI / TDK-Lambda EMS 10 V switch-mode family. Catalog examples include EMS 10-100 (10 V, 100 A, 1000 W) and EMS 10-500 (10 V, 500 A, 5000 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 EMS10-. High-current 10 V process and test DC; EMS-rack analog programmed sources. EMS10 denotes the Lambda EMI / TDK-Lambda EMS 10 V switch-mode family. Catalog examples include EMS 10-100 (10 V, 100 A, 1000 W) and EMS 10-500 (10 V, 500 A, 5000 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 EMS10-. High-current 10 V process and test DC; EMS-rack analog programmed sources.



MODEL

**Lambda / TDK
EMS10**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMS10

LISTING

<https://aumictechlabs.com/products/ems10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Lambda / TDK EMI EMS10 is a switch-mode AC-to-DC power supply engineered for precision laboratory and industrial applications. This series delivers constant voltage/constant current operation with automatic crossover, combining high efficiency with compact, lightweight design. Built-in soft-start protection, comprehensive output safeguards, and full programmability make it suitable for test, burn-in, semiconductor processing, medical research, and scientific environments. Technical Specifications Regulation & Stability Voltage mode: <0.1% deviation

across 100% load change (full load to no load) Current mode: <0.1% deviation across 100% load change (full load to short) Long-term stability: $\pm 0.05\%$ maximum over 8-hour period at constant line, load, and temperature Output voltage temperature coefficient: 0.02% per 1°C of rated voltage Output current temperature coefficient: 0.03% per 1°C of rated current Transient Response Load step 30% below 20V: 650 μ s Units above 20V: $V_{max}/20$ Protection & Cooling Soft-start input current limiting (standard on all models) Overvoltage, overcurrent, and thermal protection Forced air cooling on designated models Key Features Fully programmable voltage and current channels Analog programming interface Optional RSTL digital interface for system integration Remote programming via external resistance or voltage Lightweight design - some models weigh as little as 3.5 lbs Typical Applications Semiconductor device testing and processing Laboratory burn-in and characterization Medical device development and validation Scientific research and instrumentation Industrial and commercial power sourcing Compatibility & Integration The EMS10 series supports analog control natively and optional RSTL digital connectivity for automated test systems. Remote voltage and current programming enables flexible integration into multi-channel test benches. As a component supply, final apparatus compliance with EMC Directive requirements remains the responsibility of the system integrator.

EMS10 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS10
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Series	EMS
Alias	EMS10; EMS 10; Lambda EMS 10 V
Rated Output Voltage	0 to 10 Vdc (family)
Example EMS 10 1	0-10 V, 0-100 A, 1000 W
Example EMS 10 5	0-10 V, 0-500 A, 5000 W
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
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
Faceplate Current	required to identify 10-100 vs 10-500 vs other 10 V EMS currents
UL Note	U/L recognized family
Transient Family	650 us class EMS literature
Cooling	forced air rack EMS
Digital Option RSTL	RS-232 / IEEE-488 programmer Notes EMS10 is a 10 V family listing. Do not invent current if the faceplate is unread. Verified examples are EMS 10-100 and EMS 10-500 from TDK-Lambda EMS catalogs.

PARAMETER	VALUE
Verified catalog examples	EMS 10-100 (100 A, 1000 W); EMS 10-500 (500 A, 5000 W)

EMS10 Specifications

PARAMETER	VALUE
Applications	High-current 10 V process and test DC; EMS-rack analog programmed sources.
Key Features	- 10 V EMS switch-mode family
Technical Specifications	Model: EMS10

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