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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI EMS100-10

Lambda EMI EMS EMS100-10 Switch Mode DC Supply 0-100 V 0-10 A The Lambda EMI / TDK-Lambda EMS EMS100-10 is a high-frequency switch-mode programmable DC supply rated 0 to 100 V and 0 to 10 A (1000 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. Semiconductor process and lab DC; rack ATE; magnet and medical research DC; analog-programmed automated racks. The Lambda EMI / TDK-Lambda EMS EMS100-10 is a high-frequency switch-mode programmable DC supply rated 0 to 100 V and 0 to 10 A (1000 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. Semiconductor process and lab DC; rack ATE; magnet and medical research DC; analog-programmed automated racks.

**MODEL****Lambda / TDK /
EMI EMS100-10****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****EMS100-10****LISTING**<https://aumictechlabs.com/products/ems100-10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EMS100-10 is a 1 kW switch-mode AC-to-DC power supply delivering 0-100 VDC at 0-10 A with constant voltage/constant current operation and automatic crossover. Designed for

semiconductor processing, medical equipment, and laboratory research, this 1U rackmount unit combines high efficiency with precise load regulation and compact power density of 1.0 kW per 506 cubic inches. Technical Specifications Output: 0–100 VDC, 0–10 A, 1000 W maximum Input: Single-phase and three-phase AC supported Regulation: <0.1% deviation in voltage mode and current mode across 100% load change Output Ripple: Approximately 100 mVpp Operating Temperature: 0°C to 70°C continuous; 1% power derating per °C above 50°C Storage Temperature: –55°C to +85°C Cooling: Forced air via long-life fans Weight: Approximately 7 kg Key Features Overvoltage, overcurrent, and thermal protection integrated Analog programming standard for voltage and current control Optional RSTL digital interface for automated system integration 1U rackmount form factor High power density in compact footprint Typical Applications Semiconductor processing equipment Medical device manufacturing and testing Scientific research and laboratory instrumentation Industrial process control Compatibility & Integration Analog programming interfaces are standard. The optional RSTL digital interface enables integration into networked test systems and automated manufacturing environments.

Features & description

From manufacturer datasheet

Features

- 0 to 100 V, 0 to 10 A, 1000 W

EMS100 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS100-10
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	Switch Mode Programmable DC Power Supply
Series	EMS
Alias	EMS100-10; EMI EMS100-10; TDK-Lambda EMS100-10
Rated Output Voltage	0 to 100 Vdc
Rated Output Current	0 to 10 A
Rated Output Power	1000 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
AC Input	confirm 190-253 Vac 47-63 Hz single-phase class vs three-phase on the nameplate Notes Specs from TDK-Lambda/EMI EMS 100-10 listings (100 V, 10 A, 1000 W) and EMS family datasheet features. Confirm AC input code and RSTL option.

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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Notes

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Confirm AC input code and RSTL option.

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.