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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS10-250

The Lambda / TDK EMI EMS10-250 is a power supply unit designed for various electronic applications. It features a compact design and provides a stable and reliable power output. Suitable for use in industrial and commercial settings, this power supply offers excellent performance and durability. It is engineered to meet stringent quality standards, ensuring efficient operation and long service life. The EMS10-250 is an ideal choice for powering sensitive electronic equipment.



MODEL

**Lambda / TDK
EMS10-250**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMS10-250

LISTING

<https://aumictechlabs.com/products/ems10-250-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda / TDK EMI EMS10-250 is a 2.5 kW switch-mode AC-to-DC power supply delivering 0–10 V at 0–250 A with constant current/constant voltage operation and automatic crossover. Built for laboratory testing, burn-in applications, and industrial system integration, this unit combines high efficiency with precise regulation and a compact form factor. Programmable via analog control and optional RSTL digital interface, it delivers voltage regulation better than 0.1% across full load changes and current regulation exceeding 0.1% accuracy. Transient response of 650 μ s at loads below 20 V ensures stable operation in dynamic test environments. The supply accepts single and three-phase AC input (190–250 Vac three-phase configurations available) with standard soft-start inrush current limiting. Over-voltage protection and thermal protection are built

in with front-panel adjustment. Temperature stability holds within 0.05% over eight-hour periods under constant line, load, and temperature conditions. Temperature coefficient is 0.02% per 1°C for output voltage and 0.03% per 1°C for output current. Storage temperature range is -55 °C to 85 °C, making this supply suitable for protected industrial environments and demanding test applications requiring long-term reliability and measurement accuracy.

Features & description

From manufacturer datasheet

Features

- 0 to 10 V, 0 to 250 A, 2500 W

EMS10250 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS10-250
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	Switch Mode Programmable DC Power Supply
Series	EMS
Alias	EMS10-250; EMS 10-250; EMI EMS10-250; TDK-Lambda EMS10-250
Rated Output Voltage	0 to 10 Vdc
Rated Output Current	0 to 250 A
Rated Output Power	2500 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 EMS 10 1	0-10 V, 0-100 A, 1000 W
Neighbor EMS 10 5	0-10 V, 0-500 A, 5000 W
Identity Rule	this listing is 250 A, not 100 A or 500 A Notes Specs from TDK/EMI EMS 10-250 (10 V, 250 A, 2500 W) in the EMS series manual model list and EMS family features. 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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Form	rackmount
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UL Note	U/L recognized on EMS family sheets

Specifications

PARAMETER	VALUE
Regulation Family	0.1% class EMS literature
Neighbor EMS 10 100	0-10 V, 0-100 A, 1000 W
Neighbor EMS 10 500	0-10 V, 0-500 A, 5000 W

Identity Rule: this listing is 250 A, not 100 A or 500 A

Notes

Specs from TDK/EMI EMS 10-250 (10 V, 250 A, 2500 W) in the EMS series manual model list and EMS family features. 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.