

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS20-125-2

The Lambda/TDK EMI EMS20-125-2 is a 2500 W regulated DC power supply engineered for integration into industrial test, measurement, and automation systems. It delivers adjustable 0–20 VDC output at 0–125 A with tight voltage and current regulation, designed to minimize electromagnetic interference and susceptibility in sensitive applications. Soft-start circuitry reduces inrush current during power-on, while dual-mode constant-voltage/constant-current operation and remote sensing capability provide flexible control. The unit accepts single-phase or three-phase input from 190–250 VAC (50–60 Hz) and operates at approximately 85% efficiency with variable-speed fan cooling. Aumictech offers NIST-traceable calibration and repair for the Lambda / TDK EMS20-125-2. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days af

**MODEL****Lambda / TDK
EMS20-125-2****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****EMS20-125-2****LISTING**<https://aumictechlabs.com/products/ems20-125-2-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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operation and remote sensing capability provide flexible control. The unit accepts single-phase or three-phase input from 190–250 VAC (50–60 Hz) and operates at approximately 85% efficiency with variable-speed fan cooling. Technical Specifications Electrical Performance Output: 0–20 VDC, 0–125 A Input: 190–250 VAC, 50–60 Hz (1 or 3 phase); 208–240 VAC Voltage regulation: <0.1% for 100% load change Current regulation: <0.1% for full-load to short-circuit transition Temperature coefficient (voltage): 0.02%/°C of rated output Temperature coefficient (current): 0.03%/°C of rated output Efficiency: ~85% Power output: 2500 W Physical Dimensions: 3.5 × 5.0 × 12.6 inches Key Features Low-ripple DC output CV/CC auto-crossover for constant-voltage or constant-current mode Remote voltage and current sensing inputs Soft-start topology - standard across all EMS models Front-panel adjustment and local control Overvoltage, overcurrent, and overtemperature protection Variable-speed fan cooling with thermal management Typical Applications Test and measurement of industrial power systems, component burn-in and qualification, battery charging, electroplating, and laboratory DC power distribution. Suited for environments requiring EMC compliance and stable, low-noise power delivery. Compatibility & Integration Designed as a component for professional assembly into final apparatus. EMC compliance remains the responsibility of the system integrator. Operation requires qualified personnel due to the presence of hazardous internal voltages.

Features & description

From manufacturer datasheet

Features

- 0 to 20 V, 0 to 125 A, 2500 W

EMS20125 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS20-125-2
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	Switch Mode Programmable DC Power Supply
Series	EMS
Alias	EMS20-125-2; EMS 20-125; EMI EMS20-125; TDK-Lambda EMS20-125
Rated Output Voltage	0 to 20 Vdc
Rated Output Current	0 to 125 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
Suffix	EMS option/meter/input coding; confirmDmeter package if present on the nameplate
Related EMS10 2	EMS10-250 is 10 V, 250 A, 2500 W (same wattage class, different V/I)
Related Genesys 20 V	GEN 20-250 is Genesys 5 kW 20 V / 250 A, not this EMS 125 A row Notes Specs from TDK/EMI EMS 20-125 decoder (20 V, 125 A, 2500 W) and EMS family datasheet features. Confirm suffix 2 vs 2-D 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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PARAMETER	VALUE
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Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	Switch Mode Programmable DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMS
Alias	EMS20-125-2; EMS 20-125; EMI EMS20-125; TDK-Lambda EMS20-125
Rated Output Voltage	0 to 20 Vdc
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PARAMETER	VALUE
Rated Output Current	0 to 125 A
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Remote Analog	standard analog programming
Digital Option	RSTL RS-232 / IEEE-488 programmer
Catalog 10T	10-turn current control

Specifications

PARAMETER	VALUE
Catalog LB	lock bushing
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Catalog CE	CE mark path on selected AC inputs

Specifications

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Protection	overcurrent and overvoltage

Specifications

PARAMETER	VALUE
Form	rackmount
Programming Common	analog programming common with TCR, EMHP, and ESS series
UL Note	U/L recognized on EMS family sheets

Specifications

PARAMETER	VALUE
Regulation Family	0.1% class EMS literature
Suffix 2	EMS option/meter/input coding; confirmDmeter package if present on the nameplate
Related EMS10 250	EMS10-250 is 10 V, 250 A, 2500 W (same wattage class, different V/I)

Related Genesys 20 V: GEN 20-250 is Genesys 5 kW 20 V / 250 A, not this EMS 125 A row

Notes

Specs from TDK/EMI EMS 20-125 decoder (20 V, 125 A, 2500 W) and EMS family datasheet features. Confirm suffix 2 vs 2-D 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.