

**Aumictech**

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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS40

Lambda EMI EMS40 Series 40 V Switch Mode DC Power Supply Family EMS40 denotes the Lambda EMI / TDK-Lambda EMS 40 V switch-mode family. All EMS models are CV/CC automatic-crossover high-frequency switchers with 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. Rated current is encoded after EMS40- on the nameplate (power is 40 V times I). Do not invent an ampere rating for an unread 40 V EMS faceplate. EMS40 denotes the Lambda EMI / TDK-Lambda EMS 40 V switch-mode family. All EMS models are CV/CC automatic-crossover high-frequency switchers with 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. Rated current is encoded after EMS40- on the nameplate (power is 40 V times I). Do not invent an ampere rating for an unread 40 V EMS faceplate. 40 V process, magnet, and ATE DC; EMS analog-programmed racks.



MODEL

**Lambda / TDK
EMS40**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMS40

LISTING

<https://aumictechlabs.com/products/ems40-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TKD EMI EMS40 is an enclosed switch-mode DC power supply engineered for industrial, embedded systems, laboratory test, and burn-in applications. It delivers well-regulated, adjustable DC voltage or current with constant voltage/constant current operation and automatic crossover. Universal AC input acceptance (50/60 Hz) and active power factor correction on select

models ensure flexible deployment across global power infrastructures. Built-in overvoltage, overcurrent, and thermal protection safeguard loads in demanding environments. Efficiency reaches 88% or higher. Full programmability via analog or optional RSTL digital interface supports both local and remote control. Technical Specifications Electrical Performance AC Input: Universal 115 VAC / 220 VAC; 50/60 Hz; active PFC available on certain configurations DC Output: 40 V nominal (model-dependent); 600 W to 2.5 kW power range Load Regulation: <0.1% (100% load change) Stability: 0.05% Transient Response: 650 μ s (30% load change, $\leq$ 20 VDC models) Efficiency: Up to 88% or higher Output Nulling: Supported Remote Sensing: Available Protection & Safety Overvoltage Protection (OVP): Adjustable front-panel control Overcurrent Protection (OCP): Standard Over-Temperature Protection (OTP): Built-in thermal cutoff Fuse Protection: Field-replaceable per specification rating Key Features Adjustable CV/CC operation with seamless mode transition Fully programmable via analog or RSTL digital interface Local and remote programming capability Front-panel adjustment and monitoring Three-phase input support on higher-power models Typical Applications Industrial power distribution and embedded systems Laboratory testing and component burn-in Semiconductor processing equipment Medical and scientific instrumentation Compatibility & Integration Analog programming and optional RSTL digital interface enable integration into automated test systems and process control environments. Remote sensing maintains output regulation at the point of load.

EMS40 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS40
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Series	EMS
Alias	EMS40; EMS 40; Lambda EMS 40 V
Rated Output Voltage	0 to 40 Vdc (family)
Rated Output Current	encoded after EMS40- on the faceplate
Rated Power Class	40 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
UL Note	U/L recognized family

PARAMETER	VALUE
Cooling	forced air rack EMS
Duty	continuous within EMS ratings
Identity Rule	do not copy EMS20-125 (20 V, 125 A) or EMS30-165 (30 V, 165 A) currents onto this 40 V family
Related Genesys 40 V	GEN 40-125 is Genesys 5 kW, not EMS Notes EMS40 is a 40 V family listing. Current and wattage are faceplate-specific. Do not invent an ampere rating. Confirm dash codes (1-D, 2-D, RSTL, TC) 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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Notes

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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.