

**Aumictech**

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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS7.5

Lambda / TDK DC Power Supplies. Voltage: 7.5V DC nominal, Current: 130A, Current: Less than full load current.



MODEL

**Lambda / TDK
EMS7.5**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMS7.5

LISTING

<https://aumictechlabs.com/products/ems7-5-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Lambda/TKD EMS7.5 series comprises high-power switch-mode AC-to-DC power supplies engineered for applications requiring high efficiency, precise regulation, and compact form factor. These units operate as constant voltage/constant current sources with automatic crossover, delivering 7.5V DC output across multiple current and power ratings. Fully programmable via analog control or optional RSTL digital interface, the EMS7.5 integrates into demanding industrial and test environments. Technical Specifications Output Characteristics Output Voltage: 7.5V DC nominal Output Current: 130A, 250A, 300A (model-dependent) Output Power: 1 kW, 2 kW, 2.25 kW (model-dependent) Efficiency: Up to 90% typical Line Regulation: 0.1% of rated output voltage Load Regulation: 0.1% of rated output voltage Stability: 0.1% over 8 hours after 30 minutes warm-up Input Specifications Single-phase: 170–265 VAC, 47–63 Hz Three-phase 2.5 kW: 190–253 VAC at 47–63 Hz (28.5 A or 16.5 A, user selectable) Three-phase 5 kW: 190–253 VAC at 24–30 A, 47–63 Hz or 342–418 VAC at 13.5–30 A, 50 Hz Three-phase 480V: 342–528 VAC, 47–63 Hz Electrical Performance AC Inrush Current: Less than full load current Power Factor: 0.99 (single-phase),

0.94 (three-phase) at rated output power Soft Start: Standard on all models Key Features Constant Voltage/Constant Current operation with automatic mode crossover Programmable via analog signals or optional RSTL digital interface Remote sensing available for models $\leq 300\text{V}$ output CV/CC monitor, LOCAL/REMOTE, and ENABLE/DISABLE control signals Soft-start circuit limits inrush current during power-on Typical Applications High-current DC power delivery, test benches, industrial power distribution, battery charging systems, and precision laboratory equipment requiring stable, regulated output. Compatibility & Integration Analog programming enables direct integration with existing control systems. Optional RSTL digital interface supports networked system architectures. Remote sensing maintains tight voltage regulation at load terminals, critical for high-current applications.

EMS75 Characteristics / Specifications

PARAMETER	VALUE
Model	EMS7.5
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Series	EMS
Alias	EMS7.5; EMS 7.5; Lambda EMS 7.5 V
Rated Output Voltage	0 to 7.5 Vdc (family)
Example EMS 7.5	0-7.5 V, 0-75 A (EMS series manual model list)
Example EMS 7.5 1	0-7.5 V, 0-130 A (EMS series manual model list)
Example EMS 7.5 2	0-7.5 V, 0-250 A (EMS series manual model list)
Example EMS 7.5 3	0-7.5 V, 0-300 A (EMS series manual model list)
Example EMS 7.5 6	0-7.5 V, 0-600 A (EMS series manual model list)
Rated Output Current	encoded after EMS7.5- on the faceplate
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
Transient Family	650 us class EMS literature
UL Note	U/L recognized family

PARAMETER	VALUE
Cooling	forced air rack EMS
Catalog Options	10T, LB, TC, CE on EMS family sheets
Duty	continuous within EMS ratings Notes EMS7.5 is a 7.5 V family listing. Current and wattage are faceplate-specific. Verified manual members are EMS 7.5-75 / 130 / 250 / 300 / 600. Do not inventacurrent if the faceplate is unread.
Verified manual members	7.5-75, 7.5-130, 7.5-250, 7.5-300, 7.5-600

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	
Specifications	
PARAMETER	VALUE
Model	EMS7.5
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMS
Alias	EMS7.5; EMS 7.5; Lambda EMS 7.5 V
Rated Output Voltage	0 to 7.5 Vdc (family)
Specifications	
PARAMETER	VALUE
Example EMS 7.5 75	0-7.5 V, 0-75 A (EMS series manual model list)
Example EMS 7.5 130	0-7.5 V, 0-130 A (EMS series manual model list)
Example EMS 7.5 250	0-7.5 V, 0-250 A (EMS series manual model list)
Specifications	
PARAMETER	VALUE
Example EMS 7.5 300	0-7.5 V, 0-300 A (EMS series manual model list)
Example EMS 7.5 600	0-7.5 V, 0-600 A (EMS series manual model list)
Rated Output Current	encoded after EMS7.5- on the faceplate
Specifications	
PARAMETER	VALUE
Output Mode	CV/CC automatic crossover
Topology	high-frequency switch-mode
Voltage Adjust	true zero V/I adjustability

Specifications

PARAMETER	VALUE
Remote Analog	standard
Digital Option	RSTL RS-232/IEEE-488
Series Parallel	master-slave

Specifications

PARAMETER	VALUE
Soft Start	yes
Protection	OCP and OVP
Programming Common	TCR, EMHP, ESS analog class

Specifications

PARAMETER	VALUE
Form	rackmount
Regulation Family	0.1% class EMS literature
Transient Family	650 us class EMS literature

Specifications

PARAMETER	VALUE
UL Note	U/L recognized family
Cooling	forced air rack EMS
Catalog Options	10T, LB, TC, CE on EMS family sheets

Duty: continuous within EMS ratings

Notes

EMS7.5 is a 7.5 V family listing. Current and wattage are faceplate-specific. Verified manual members are EMS 7.5-75 / 130 / 250 / 300 / 600. Do not inventacurrent if the faceplate is unread.

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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NIST-traceable calibration · SAM registered ·
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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.