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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMS6

Lambda EMI EMS6 Series 6 V Switch Mode DC Power Supply Family EMS6 denotes the Lambda EMI / TDK-Lambda EMS 6 V switch-mode family. Catalog members in EMS literature include EMS 6-250, EMS 6-400, EMS 6-500, and EMS 6-800 (6 V at 250/400/500/800 A). All EMS models are high-frequency CV/CC supplies with analog programming, optional RSTL, soft start, and master-slave series/parallel. Family regulation is 0.1 percent class; transient 650 us class. Rated current is encoded after EMS6- or EMS 6- on the nameplate (power is Vtimes I). Do not invent an ampere rating if the faceplate is unread. EMS6 denotes the Lambda EMI / TDK-Lambda EMS 6 V switch-mode family. Catalog members in EMS literature include EMS 6-250, EMS 6-400, EMS 6-500, and EMS 6-800 (6 V at 250/400/500/800 A). All EMS models are high-frequency CV/CC supplies with analog programming, optional RSTL, soft start, and master-slave series/parallel. Family regulation is 0.1 percent class; transient 650 us class. Rated current is encoded after EMS6- or EMS 6- on the nameplate (power is Vtimes I). Do not invent an ampere rating if the faceplate is unread. High-current 6 V process, burn-in, and plating DC



MODEL

**Lambda / TDK
EMS6**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMS6

LISTING

<https://aumictechlabs.com/products/ems6-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TDK Lambda EMS6 series comprises high-frequency switch-mode DC power supplies engineered for constant voltage and constant current applications. These units deliver 600W to

5000W output across laboratory test, burn-in, industrial, and embedded system environments. Compact construction achieves high power density - up to 3.1 W/cu.in. for the 5 kW model - making them ideal for space-constrained installations. Dual-mode operation maintains voltage regulation within 0.1% across 100% load changes and current regulation within 0.1% under identical conditions. Line regulation holds output variation to 0.05% maximum over eight-hour periods under stable conditions. Temperature coefficient for output voltage is 0.02%/°C; output current is 0.03%/°C. Forced-air cooling via long-life fans ensures continuous duty performance from 0°C to 70°C ambient, with 1% per degree Celsius derating above 50°C. AC inrush current is limited by standard soft-start circuitry to less than full-load rating during turn-on, power interruption, or reapplication events. Input current varies by output power and phase configuration - a 600W unit draws maximum 11.3A at 105-125 VAC or 6.3A at 190-253 VAC; a 2.5 kW unit requires 28.5A at 190-253 VAC (10A at 47-63 Hz). Models support single and three-phase input. Storage temperature range is -55°C to +85°C. Technical Specifications Output Power: 600W to 5000W Regulation (CV Mode): <0.1% voltage deviation for 100% load change Regulation (CC Mode): <0.1% current deviation for 100% load change Line Regulation: <0.1% output variation across full AC input range Long-term Stability: <0.05% deviation over 8 hours at constant line, load, and temperature Output Voltage Temperature Coefficient: 0.02%/°C Output Current Temperature Coefficient: 0.03%/°C Operating Temperature: 0°C to 70°C continuous; derating 1%/°C above 50°C Storage Temperature: -55°C to +85°C Power Density: Up to 3.1 W/cu.in. (5 kW model) Cooling: Forced air (front intake, rear exhaust) AC Input: Single and three-phase models available Key Features Constant voltage/constant current dual-mode capability High load and line regulation accuracy Soft-start limiting for controlled inrush current Analog or optional RSTL digital interface for programmability High packaging density and lightweight construction Typical Applications Laboratory power supply and burn-in testing Industrial DC power distribution Embedded systems requiring stable regulated supply Compatibility & Integration Full programmability via analog control or optional RSTL digital interface supports seamless system integration.

EMS6 Characteristics / Specifications

PARAMETER	VALUE
Verified members	6-250, 6-400, 6-500, 6-800 CV/CC automatic crossover Analog program; optional RSTL Soft start; OVP/OCP; master-slave Technical Specifications
Model	EMS6
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Series	EMS
Alias	EMS6; EMS 6; Lambda EMS 6 V
Rated Output Voltage	0 to 6 Vdc (family)
Example EMS 6 2	0-6 V, 0-250 A, 1500 W class
Example EMS 6 4	0-6 V, 0-400 A, 2400 W class
Example EMS 6 5	0-6 V, 0-500 A, 3000 W class
Example EMS 6 8	0-6 V, 0-800 A, 4800 W class
Rated Output Current	encoded after EMS6- 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
Catalog 10T	10-turn current control
Catalog LB	lock bushing
Catalog TC	terminal covers
Catalog D	digital meters
Series Parallel	master-slave
Soft Start	yes
Protection	OCP and OVP

PARAMETER	VALUE
Programming Common	TCR, EMHP, ESS analog class
Form	rackmount
Regulation Family	0.1 percent class EMS literature
Transient Family	650 us class EMS literature
UL Note	U/L recognized family
Cooling	forced air rack EMS
Duty	continuous within EMS ratings
Identity Rule	6 V family; do not relabel as EMS 7.5 or EMS 10 Notes EMS6 is a 6 V family listing. Current and wattage are faceplate-specific. Verified catalog members include EMS 6-250 / 6-400 / 6-500 / 6-800. Do not invent current if the faceplate is unread.

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	EMS6
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	Switch Mode DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMS
Alias	EMS6; EMS 6; Lambda EMS 6 V
Rated Output Voltage	0 to 6 Vdc (family)
Specifications	
PARAMETER	VALUE
Example EMS 6 250	0-6 V, 0-250 A, 1500 W class
Example EMS 6 400	0-6 V, 0-400 A, 2400 W class
Example EMS 6 500	0-6 V, 0-500 A, 3000 W class
Specifications	
PARAMETER	VALUE
Example EMS 6 800	0-6 V, 0-800 A, 4800 W class
Rated Output Current	encoded after EMS6- on the faceplate
Output Mode	CV/CC automatic crossover
Specifications	
PARAMETER	VALUE
Topology	high-frequency switch-mode
Voltage Adjust	true zero V/I adjustability
Remote Analog	standard

Specifications

PARAMETER	VALUE
Digital Option	RSTL RS-232/IEEE-488
Catalog 10T	10-turn current control
Catalog LB	lock bushing

Specifications

PARAMETER	VALUE
Catalog TC	terminal covers
Catalog D	digital meters
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
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Specifications

PARAMETER	VALUE
UL Note	U/L recognized family
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Duty	continuous within EMS ratings

Identity Rule: 6 V family; do not relabel as EMS 7.5 or EMS 10

Notes

EMS6 is a 6 V family listing. Current and wattage are faceplate-specific. Verified catalog members include EMS 6-250 / 6-400 / 6-500 / 6-800. Do not invent current 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

788 S 500 E, Pleasant Grove, UT 84062
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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.