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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMHP60-500

The Lambda/TDK EMHP60-500 is a 500W regulated power supply employing SCR phase control topology for precision DC output in demanding industrial and laboratory environments. It combines fully programmable constant voltage and constant current modes with automatic crossover, forced air cooling, and built-in RFI protection to deliver stable, metered power with mode indication and contactor interlock control. Optional digital programming via IEEE 488 or RS232 (factory consultation required) Aumictech offers NIST-traceable calibration and repair for the Lambda / TDK EMHP60-500. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Lambda / TDK EMHP60-500 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

**MODEL****Lambda / TDK
EMHP60-500****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****EMHP60-500****LISTING**<https://aumictechlabs.com/products/emhp60-500-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TDK EMHP60-500 is a 500W regulated power supply employing SCR phase control topology for precision DC output in demanding industrial and laboratory environments. It combines fully programmable constant voltage and constant current modes with automatic crossover, forced air cooling, and built-in RFI protection to deliver stable, metered power with mode indication and contactor interlock control. Technical Specifications Output Performance

500W nominal output Voltage ripple: 100 mV RMS (typical for this series) Current ripple: 0.5 A RMS (typical for this series) Line and load regulation: $\pm 0.1\%$ within ratings Long-term stability: $\pm 0.05\%$ over 8 hours under constant external conditions Transient recovery: typically within 1% within 200 ms Temperature coefficient: $\pm 0.02\%/^{\circ}\text{C}$ of maximum rating Load-point regulation with IR drop compensation AC Input Standard: 460 VAC $\pm 10\%$, 50/60 Hz Operating range: 440–480 VAC Phase-to-phase balance requirement: $\pm 2\%$ for ripple specification Phase rotation sequence: not required 60 kW units draw 119 A @ 440 VAC Control & Programming Fully programmable CV/CC modes with automatic crossover Resistance programming for voltage or current selection External reference voltage programming in either mode Optional digital programming via IEEE 488 or RS232 (factory consultation required) Key Features SCR phase control regulated topology Forced air cooling system Fully metered output with mode indicator lights Contactor-based interlock control for safe on/off sequencing Lifting eye-bolt provisions for mechanical handling Built-in RFI protection Typical Applications Electromagnetics testing Cryogenic magnet excitation Battery testing and simulation Compatibility & Integration Digital control interfaces (IEEE 488, RS232) available through factory configuration. Physical mounting accommodates optional I-beam and caster provisions.

Features & description

From manufacturer datasheet

Features

- 0 to 60 V, 0 to 500 A, 30 kW class

EMHP60500 Characteristics / Specifications

PARAMETER	VALUE
Model	EMHP60-500
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	High Power SCR DC Power Supply
Series	EMHP
Alias	EMHP60-500; EMHP 60-500; EMI EMHP60-500; TDK-Lambda EMHP60-500
Rated Output Voltage	0 to 60 Vdc
Rated Output Current	0 to 500 A
Rated Power	30 kW maximum class
Output Ripple RMS	100 mVrms (60 Hz ripple column)
Frame Class	Size 2 up to 30 kW
Topology	SCR phase control on transformer primary; rectified and L/C filtered DC
Output Mode	constant voltage / constant current automatic crossover
Regulation	0.1% line and load (within ratings)
Stability	0.05% for 8 hours with constant external effects
Transient	recover to within 1% of final value within 200 ms for 50-100% load class (EMHP datasheet)
Operating Temperature	0 to 50 C; derate above 50 C
AC Input Standard	440/480 Vac three phase 60 Hz; optional inputs available
Softstart	AC inrush softstart
Cooling	forced air
Protection	overvoltage, overtemperature, overcurrent
Remote Program	resistance, voltage, and current programming standard
Analog Optional	0-5 V and 0-10 V
Digital Optional	RS-232 and IEEE-488
Meters	analog or digital meter packages

PARAMETER	VALUE
Mechanical Size	34.625 inHx 27.5 inWx 29.25 in D, 750-900 lb (30 kW class)
Interlock	contactor on/off interlock control
RFI	built-in RFI protection
Agency	not recommended for new designs; TDK points to Genesys / GENESYS+
Neighbor 20 kW	EMHP 60-330 is 0-60 V, 0-330 A, 100 mVrms, 20 kW Notes

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C; derate above 50 C
Operating Temperature	0 to 50 C; derate above 50 C
AC Input Standard	440/480 Vac three phase 60 Hz; optional inputs available
Softstart	AC inrush softstart
Cooling	forced air
Protection	overvoltage, overtemperature, overcurrent
Remote Program	resistance, voltage, and current programming standard
Analog Optional	0-5 V and 0-10 V
Digital Optional	RS-232 and IEEE-488
Meters	analog or digital meter packages
Mechanical Size	34.625 inHx 27.5 inWx 29.25 in D, 750-900 lb (30 kW class)
Interlock	contactor on/off interlock control
RFI	built-in RFI protection
Agency	not recommended for new designs; TDK points to Genesys / GENESYS+
Neighbor 20 kW	EMHP 60-330 is 0-60 V, 0-330 A, 100 mVrms, 20 kW Notes

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	EMHP60-500
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	High Power SCR DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMHP
Alias	EMHP60-500; EMHP 60-500; EMI EMHP60-500; TDK-Lambda EMHP60-500
Rated Output Voltage	0 to 60 Vdc
Specifications	
PARAMETER	VALUE
Rated Output Current	0 to 500 A
Rated Power	30 kW maximum class
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Specifications	
PARAMETER	VALUE
Frame Class	Size 2 up to 30 kW
Topology	SCR phase control on transformer primary; rectified and L/C filtered DC
Output Mode	constant voltage / constant current automatic crossover
Specifications	
PARAMETER	VALUE
Regulation	0.1% line and load (within ratings)
Stability	0.05% for 8 hours with constant external effects

PARAMETER	VALUE
Transient	recover to within 1% of final value within 200 ms for 50-100% load class (EMHP datasheet)

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 50 C; derate above 50 C
AC Input Standard	440/480 Vac three phase 60 Hz; optional inputs available
Softstart	AC inrush softstart

Specifications

PARAMETER	VALUE
Cooling	forced air
Protection	overvoltage, overtemperature, overcurrent
Remote Program	resistance, voltage, and current programming standard

Specifications

PARAMETER	VALUE
Analog Optional	0-5 V and 0-10 V
Digital Optional	RS-232 and IEEE-488
Meters	analog or digital meter packages

Specifications

PARAMETER	VALUE
Mechanical Size 1	30 inHx 22.25 inWx 27.75 in D, 500-750 lb (20 kW class)
Mechanical Size 2	34.625 inHx 27.5 inWx 29.25 in D, 750-900 lb (30 kW class)
Mechanical Size 3	44.5 inHx 27.5 inWx 33.25 in D, 1000-1500 lb (60 kW class)

Specifications

PARAMETER	VALUE
Interlock	contactor on/off interlock control
RFI	built-in RFI protection
Agency	not recommended for new designs; TDK points to Genesys / GENESYS+

Neighbor 20 kW: EMHP 60-330 is 0-60 V, 0-330 A, 100 mVrms, 20 kW

Notes

Specs from the live TDK-Lambda EMHP series table (EMHP 60-500: 30 kW, 0-60 V, 0-500 A, 100 mVrms) and EMHP datasheet (regulation 0.1%, stability 0.05%, 440/480 Vac 3-ph 60 Hz). Confirm meter type and AC input option

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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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.