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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMHP 400-70

Manufacturer: Lambda EMI / TDK-Lambda Americas Instrument Type: High Power SCR DC Power Supply Alias: EMHP 400-70; EMHP400-70; Lambda EMI EMHP 400-70 Rated Output Voltage: 0 to 400 Vdc (decoder) Instrument Type: High Power SCR DC Power Supply Alias: EMHP 400-70; EMHP400-70; Lambda EMI EMHP 400-70 Rated Output Voltage: 0 to 400 Vdc (decoder) Rated Output Current: 0 to 70 A (decoder)

**MODEL****Lambda / TDK
EMHP 400-70****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****EMHP 400-70****LISTING**<https://aumictechlabs.com/products/emhp-400-70-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TDK EMI EMHP 400-70 is a three-phase AC input SCR-type DC power supply delivering 28 kW of regulated power at up to 400 V and 70 A. Built on regulated SCR phase control topology, this high-power unit has constant voltage/constant current regulation with automatic crossover, meeting the demands of industrial and laboratory applications requiring stable bulk power delivery. Technical Specifications Power Output: 28 kW Output Voltage: 0–400 V maximum Output Current: 0–70 A maximum Input Voltage: 460 VAC $\pm 10\%$ (30–60 Hz); operates within full specification 440–480 VAC Topology: Regulated SCR phase control with three-phase AC input DC Output Ripple: 70 mVrms @ 60 Hz Voltage/Current Regulation: $\pm 0.1\%$ line and load regulation; $\pm 0.05\%$ stability over 8 hours Transient Response: Output recovers to within 1% of final value within 200 ms for load steps between 50% and 100% rated current Cooling: Forced air

Key Features Constant voltage and constant current modes with seamless automatic crossover
Fully programmable via remote resistance, voltage, or current control Output voltage and current
metering provided Overvoltage, overtemperature, and overcurrent protection RFI protection
integrated Circuit breaker and contactor interlock control Optional digital programming via IEEE
488 or RS232 (consult factory) Phase-to-phase balance requirement: +2% for ripple specification
Phase-to-phase rotation sequence of AC input not required **Typical Applications** Industrial test
and burn-in environments, laboratory power delivery systems, and demanding applications
requiring high-current DC regulation and minimal output ripple. **Compatibility & Integration**
Accepts three-phase 460 VAC $\pm 10\%$ input (30–60 Hz) across a 440–480 VAC operating window.
Supports external control programming and optional IEEE 488/RS232 interfaces. **Note:** This
product line is not recommended for new designs; TDK-Lambda recommends evaluating
Genesys™ or GENESYS+™ series alternatives.

Features & description

From manufacturer datasheet

Features

- Decoder identity 400 V, 70 A (28000 W class)

EMHP400 Characteristics / Specifications

PARAMETER	VALUE
Model	EMHP400-70
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	High Power SCR DC Power Supply
Series	EMHP
Alias	EMHP 400-70; EMHP400-70; Lambda EMI EMHP 400-70
Rated Output Voltage	0 to 400 Vdc (decoder)
Rated Output Current	0 to 70 A (decoder)
Rated Power Class	28000 W class (400 V x 70 A)
Table Note	live TDK EMHP web table has no EMHP 400-xx row; confirm V/I on the nameplate
Neighbor 300 V 20 kW	EMHP 300-60, 0-300 V, 0-60 A, 300 mVrms
Neighbor 600 V 20 kW	EMHP 600-30, 0-600 V, 0-30 A, 400 mVrms
Output Mode	CV/CC automatic crossover
Topology	SCR phase control, L/C filtered
Regulation	0.1%
Stability	0.05% for 8 hours
Operating Temperature	0 to 50 C
AC Input Standard	440/480 Vac three phase 60 Hz
Cooling	forced air
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Analog Optional	0-5 V and 0-10 V
Digital Optional	RS-232 / IEEE-488
Mechanical	Size 1/2/3 cabinets per kW
Interlock	contactor on/off
RFI	built-in

PARAMETER	VALUE
Nearby Genesys 400 V	GEN 400-13 (5.2 kW) and GEN 400-25 (10 kW) are Genesys, not EMHP
Ripple	not published on a 400 V EMHP web row; do not copy 300 mV or 400 mV from 300/600 V neighbors
Duty	continuous within EMHP ratings
Agency	not recommended for new designs; TDK points to Genesys / GENESYS+ Notes 400 V / 70 A is from the EMHP voltage-current decoder (28 kW class). The live TDK EMHP grid has no 400 V row. Do not invent ripple mV. Confirm faceplate voltage, current, kW, and suffix.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
AC Input Standard	440/480 Vac three phase 60 Hz
Cooling	forced air
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Analog Optional	0-5 V and 0-10 V
Digital Optional	RS-232 / IEEE-488
Mechanical	Size 1/2/3 cabinets per kW
Interlock	contactor on/off
RFI	built-in
Nearby Genesys 400 V	GEN 400-13 (5.2 kW) and GEN 400-25 (10 kW) are Genesys, not EMHP
Ripple	not published on a 400 V EMHP web row; do not copy 300 mV or 400 mV from 300/600 V neighbors
Duty	continuous within EMHP ratings
Agency	not recommended for new designs; TDK points to Genesys / GENESYS+ Notes 400 V / 70 A is from the EMHP voltage-current decoder (28 kW class). The live TDK EMHP grid has no 400 V row. Do not invent ripple mV. Confirm faceplate voltage, current, kW, and suffix.

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	EMHP400-70
Manufacturer	Lambda EMI / TDK-Lambda Americas
Instrument Type	High Power SCR DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMHP
Alias	EMHP 400-70; EMHP400-70; Lambda EMI EMHP 400-70
Rated Output Voltage	0 to 400 Vdc (decoder)
Specifications	
PARAMETER	VALUE
Rated Output Current	0 to 70 A (decoder)
Rated Power Class	28000 W class (400 V x 70 A)
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Output Mode	CV/CC automatic crossover
Specifications	
PARAMETER	VALUE
Topology	SCR phase control, L/C filtered
Regulation	0.1%
Stability	0.05% for 8 hours

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 50 C
AC Input Standard	440/480 Vac three phase 60 Hz
Cooling	forced air

Specifications

PARAMETER	VALUE
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Analog Optional	0-5 V and 0-10 V

Specifications

PARAMETER	VALUE
Digital Optional	RS-232 / IEEE-488
Mechanical	Size 1/2/3 cabinets per kW
Interlock	contactor on/off

Specifications

PARAMETER	VALUE
RFI	built-in
Nearby Genesys 400 V	GEN 400-13 (5.2 kW) and GEN 400-25 (10 kW) are Genesys, not EMHP
Ripple	not published on a 400 V EMHP web row; do not copy 300 mV or 400 mV from 300/600 V neighbors

Duty: continuous within EMHP ratings

Agency: not recommended for new designs; TDK points to Genesys / GENESYS+

Notes

400 V / 70 A is from the EMHP voltage-current decoder (28 kW class). The live TDK EMHP grid has no 400 V row. Do not invent ripple mV. Confirm faceplate voltage, current, kW, and suffix.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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30-day returns
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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.