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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMHP400

Lambda EMI EMHP400 400 V Class High Power SCR DC Supply Family EMHP400 denotes a 400 V class Lambda EMI EMHP high-power SCR DC supply. The current TDK-Lambda EMHP published table emphasizes 10-600 V models at 20-90 kW and does not list standalone EMHP 400-xx row; 400 V isaGenesys 2U/3U voltage (e.g. GEN 400-13 / GEN 400-25) and appears on some legacy EMI order strings. Treat this listing as a 400 V EMHP-family cabinet: SCR phase control, CV/CC, 0.1% regulation, 0.05% stability, 440/480 Vac 3-phase 60 Hz, analog program. Read current and kW from the faceplate. EMHP400 denotes a 400 V class Lambda EMI EMHP high-power SCR DC supply. The current TDK-Lambda EMHP published table emphasizes 10-600 V models at 20-90 kW and does not list standalone EMHP 400-xx row; 400 V isaGenesys 2U/3U voltage (e.g. GEN 400-13 / GEN 400-25) and appears on some legacy EMI order strings. Treat this listing as a 400 V EMHP-family cabinet: SCR phase control, CV/CC, 0.1% regulation, 0.05% stability, 440/480 Vac 3-phase 60 Hz, analog program. Read current and kW from the faceplate. 400 V class bulk DC; magnet, plating, and process power in EMHP cabinets.



MODEL

**Lambda / TDK
EMHP400**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMHP400

LISTING

<https://aumictechlabs.com/products/emhp400-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda / TDK / EMI EMHP400 is a high-power DC power supply utilizing regulated SCR phase control topology for constant voltage and constant current delivery with automatic crossover. Engineered for industrial applications demanding significant raw power with dependable performance, the EMHP400 operates from three-phase AC input and includes built-in RFI protection, comprehensive metering, and multiple safeguard mechanisms. Note: TDK-Lambda recommends the Genesys™ or GENESYS+™ series for new designs.

Technical Specifications

Input Three-phase AC input: 460 VAC $\pm 10\%$, 50/60 Hz Operating range: 440–480 VAC Phase-to-phase balance requirement: $\pm 2\%$ for ripple specification Output Power range: 20 kW to 90 kW Output voltage: 0–10 V to 0–600 V (model-dependent) Output current: 0–30 A to 0–1000 A (model-dependent) Output ripple: 50–400 mV RMS depending on configuration Line and load regulation: $\pm 0.1\%$ (line $\pm 10\%$, load 50–100%) Voltage/current stability: $\pm 0.05\%$ over 8 hours with constant external conditions Control & Protection Constant voltage/constant current regulation with automatic crossover Output modulation via SCR conduction angle control Overvoltage, overtemperature, and overcurrent protection Circuit breaker protection Contactor on/off interlock control

Key Features

- L/C filtered rectified DC output for low ripple performance
- Forced air cooling
- Fully metered with mode indicator lights
- Lifting eye-bolt provisions for transport
- SCR phase control topology for precise output regulation

Typical Applications

Industrial power delivery, electroplating, metal processing, and high-current testing environments requiring stable DC output with minimal ripple and fast dynamic response.

Compatibility & Integration

Three-phase AC mains connection. External voltage and current control inputs available for remote operation and integration into automated test systems.

Features & description

From manufacturer datasheet

Features

- 400 V EMHP SCR family identity

EMHP400 Characteristics / Specifications

PARAMETER	VALUE
Model	EMHP400
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power SCR DC Power Supply
Series	EMHP
Alias	EMHP400; EMHP 400; Lambda EMI EMHP 400 V
Rated Output Voltage	0 to 400 Vdc class (family listing)
Rated Output Current	faceplate after EMHP 400-
Rated Power	20 to 90 kW EMHP cabinet class
Topology	SCR phase control, L/C filtered
Output Mode	CV/CC automatic crossover
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
Digital Optional	RS-232 / IEEE-488
Table Note	current TDK EMHP web table has no EMHP 400-xx row; confirm V/I on the nameplate
Nearby Genesys 400 V	GEN 400-13 (5.2 kW) and GEN 400-25 (10 kW) are Genesys, not EMHP
Mechanical	Size 1/2/3 cabinets per kW
Interlock	contactor on/off
RFI	built-in Notes 400 V EMHP current is not in the live TDK EMHP model grid. Do not invent amperes. Confirm faceplate voltage, current, kW, and suffix.

EMHP400 Specifications

PARAMETER	VALUE
Applications	400 V class bulk DC; magnet, plating, and process power in EMHP cabinets.
Key Features	- 400 V EMHP SCR family identity
Technical Specifications	Model: EMHP400
Notes	400 V EMHP current is not in the live TDK EMHP model grid. Do not invent amperes. Confirm faceplate voltage, current, kW, and suffix.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
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AC Input Standard	440/480 Vac three phase 60 Hz
Cooling	forced air
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Digital Optional	RS-232 / IEEE-488
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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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Instrument Type	High Power SCR DC Power Supply
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PARAMETER	VALUE
Series	EMHP
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Topology	SCR phase control, L/C filtered
Specifications	
PARAMETER	VALUE
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Specifications

PARAMETER	VALUE
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Specifications

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Mechanical	Size 1/2/3 cabinets per kW

Interlock: contactor on/off

RFI: built-in

Notes

400 V EMHP current is not in the live TDK EMHP model grid. Do not invent amperes. 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

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.