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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMHP600

Lambda EMI EMHP600 600 V High Power SCR DC Supply Family EMHP600 denotes the 600 V Lambda EMI EMHP family. Verified TDK-Lambda table rows: EMHP 600-30 (20 kW, 0-600 V, 0-30 A, 400 mVrms), EMHP 600-50 (30 kW, 0-50 A, 400 mVrms), and EMHP 600-100 (60 kW, 0-100 A, 400 mVrms). All are SCR phase-controlled CV/CC cabinets, 0.1% regulation, 0.05% stability, 440/480 Vac 3-phase 60 Hz. 600 V magnets, plating, and bulk DC; EMHP cabinet replacements. EMHP600 denotes the 600 V Lambda EMI EMHP family. Verified TDK-Lambda table rows: EMHP 600-30 (20 kW, 0-600 V, 0-30 A, 400 mVrms), EMHP 600-50 (30 kW, 0-50 A, 400 mVrms), and EMHP 600-100 (60 kW, 0-100 A, 400 mVrms). All are SCR phase-controlled CV/CC cabinets, 0.1% regulation, 0.05% stability, 440/480 Vac 3-phase 60 Hz. 600 V magnets, plating, and bulk DC; EMHP cabinet replacements.



MODEL

**Lambda / TDK
EMHP600**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMHP600

LISTING

<https://aumictechlabs.com/products/emhp600-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Lambda/TDK EMHP600 is a three-phase AC-DC power supply series engineered for high-power industrial and scientific applications. Using regulated SCR phase control topology, these units deliver stable DC power in constant voltage (CV) and constant current (CC) modes with automatic crossover. Housed in fully enclosed steel and aluminum cabinets with forced air cooling, the EMHP600 supports remote programming via resistance, voltage, or current inputs,

with optional IEEE 488 or RS232 digital control. Comprehensive protection - including overvoltage, overtemperature, overcurrent, and RFI filtering - ensures reliable operation in demanding environments. Built-in metering and mode indicators provide real-time feedback. Note: TDK-Lambda recommends the Genesys™ or GENESYS+™ series for new designs. Technical Specifications Input: Three-phase AC, 440–480 VAC at 60 Hz (standard 460 VAC $\pm 10\%$), or 240 VAC three-phase on select models. Phase-to-phase voltage balance of $\pm 2\%$ required for ripple specification. Output Power: 20 kW (Size 1) to 90 kW (Size 3½), with specific models rated to 60 kW. Output Ratings: Voltage/current combinations span 0–600 V and 0–1000 A within power envelope. Example models: EMHP 600-100 (0–600 V, 0–100 A), EMHP 600-50 (0–600 V, 0–50 A). Configurations up to 3000 A and 600 V available subject to series power rating. Voltage Ripple (60 Hz): 50 mVrms to 400 mVrms depending on model; EMHP 600-100 typically 300 mVrms. Current Ripple (60 Hz): 0.02 A rms to 5 A rms depending on model; EMHP 600-100 typically 0.10 A rms. Regulation: Line and load variation within $\pm 0.1\%$ for output voltage or current. Key Features Programmable CV/CC operation with automatic mode crossover Remote analog programming (resistance, voltage, current inputs) Optional digital interface (IEEE 488 / RS232) Contactor on/off interlock control Overvoltage, overtemperature, and overcurrent protection Built-in RFI filtering and circuit breaker protection Lifting eye-bolts for secure installation Panel meters and mode indicator lights Typical Applications Electrofinishing, electroplating, anodizing, battery charging, industrial heating, and laboratory testing requiring stable, programmable DC power at high current or voltage levels. Compatibility & Integration Digital programming interfaces available via factory consultation. Accepts three-phase AC input across standard industrial voltage ranges with minimal phase imbalance requirements.

EMHP600 Characteristics / Specifications

PARAMETER	VALUE
Model	EMHP600
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power SCR DC Power Supply
Series	EMHP
Alias	EMHP600; EMHP 600; EMHP 600-30; EMHP 600-50; EMHP 600-100
Rated Output Voltage	0 to 600 Vdc
Example 20 kW	EMHP 600-30, 0-30 A, 400 mVrms, Size 1
Example 30 kW	EMHP 600-50, 0-50 A, 400 mVrms, Size 2
Example 60 kW	EMHP 600-100, 0-100 A, 400 mVrms, Size 3
Output Mode	CV/CC automatic crossover
Regulation	0.1%
Stability	0.05% for 8 hours
AC Input Standard	440/480 Vac three phase 60 Hz
Operating Temperature	0 to 50 C
Cooling	forced air
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Digital Optional	RS-232 / IEEE-488
Ripple 600 V Rows	400 mVrms
Faceplate Current	required to distinguish 30 A vs 50 A vs 100 A
Rental Sheet 600 1	300 mVrms / 0.10 A vrms also appears on some 600-100 rental sheets; prefer TDK table 400 mVrms unless the installed manual matches
Interlock	contactor on/off
RFI	built-in Notes Specs from TDK-Lambda EMHP table 600 V rows. Confirm 30/50/100 A and kW on the nameplate.
Verified	600-30 (20 kW/30 A), 600-50 (30 kW/50 A), 600-100 (60 kW/100 A)

EMHP600 Specifications

PARAMETER	VALUE
Lambda EMI EMHP600 600 V High Power SCR DC Supply Family	Overview
Applications	600 V magnets, plating, and bulk DC; EMHP cabinet replacements.
Key Features	- 600 V EMHP family
Technical Specifications	Model: EMHP600
Notes	Specs from TDK-Lambda EMHP table 600 V rows. Confirm 30/50/100 A and kW on the nameplate.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Cooling	forced air
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Digital Optional	RS-232 / IEEE-488
Ripple 600 V Rows	400 mVrms
Faceplate Current	required to distinguish 30 A vs 50 A vs 100 A
Rental Sheet 600 1	300 mVrms / 0.10 A vrms also appears on some 600-100 rental sheets; prefer TDK table 400 mVrms unless the installed manual matches
Interlock	contactor on/off
RFI	built-in Notes Specs from TDK-Lambda EMHP table 600 V rows. Confirm 30/50/100 A and kW on the nameplate.

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	EMHP600
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power SCR DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMHP
Alias	EMHP600; EMHP 600; EMHP 600-30; EMHP 600-50; EMHP 600-100
Rated Output Voltage	0 to 600 Vdc
Specifications	
PARAMETER	VALUE
Example 20 kW	EMHP 600-30, 0-30 A, 400 mVrms, Size 1
Example 30 kW	EMHP 600-50, 0-50 A, 400 mVrms, Size 2
Example 60 kW	EMHP 600-100, 0-100 A, 400 mVrms, Size 3
Specifications	
PARAMETER	VALUE
Output Mode	CV/CC automatic crossover
Regulation	0.1%
Stability	0.05% for 8 hours
Specifications	
PARAMETER	VALUE
AC Input Standard	440/480 Vac three phase 60 Hz
Operating Temperature	0 to 50 C
Cooling	forced air

Specifications

PARAMETER	VALUE
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Digital Optional	RS-232 / IEEE-488

Specifications

PARAMETER	VALUE
Ripple 600 V Rows	400 mVrms
Faceplate Current	required to distinguish 30 A vs 50 A vs 100 A
Rental Sheet 600 100	300 mVrms / 0.10 A vrms also appears on some 600-100 rental sheets; prefer TDK table 400 mVrms unless the installed manual matches

Interlock: contactor on/off

RFI: built-in

Notes

Specs from TDK-Lambda EMHP table 600 V rows. Confirm 30/50/100 A and kW 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.