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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI EMHP30

Lambda EMI EMHP30 30 V High Power SCR DC Supply Family EMHP30 denotes the 30 V Lambda EMI EMHP family. Verified TDK-Lambda rows include EMHP 30-600 (20 kW, 0-600 A, 70 mVrms), EMHP 30-800 and 30-950 (30 kW), EMHP 30-1250 and 30-1800 (60 kW), and EMHP 30-3000 (90 kW, 0-3000 A, 70 mVrms). All are SCR CV/CC cabinets, 0.1% regulation, 440/480 Vac 3-phase 60 Hz. 30 V high-current magnets, plating, and bulk DC. EMHP30 denotes the 30 V Lambda EMI EMHP family. Verified TDK-Lambda rows include EMHP 30-600 (20 kW, 0-600 A, 70 mVrms), EMHP 30-800 and 30-950 (30 kW), EMHP 30-1250 and 30-1800 (60 kW), and EMHP 30-3000 (90 kW, 0-3000 A, 70 mVrms). All are SCR CV/CC cabinets, 0.1% regulation, 440/480 Vac 3-phase 60 Hz. 30 V high-current magnets, plating, and bulk DC.



MODEL

**Lambda / TDK
EMHP30**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EMHP30

LISTING

<https://aumictechlabs.com/products/emhp30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The TDK-Lambda EMHP30 is a high-power DC power supply employing regulated SCR phase control topology for demanding industrial and test applications. This fully metered unit delivers constant voltage and constant current operation with automatic crossover, variable-speed forced air cooling, and built-in RFI protection. The EMHP30 represents a 30V, 3000A model within a series extending to 90 kW maximum output. Though legacy equipment not recommended for new designs, it remains operational for existing installations requiring high current bulk power delivery

with precise regulation and contactor-based on/off interlock control. Technical Specifications
Topology: Regulated SCR phase control Output Regulation: Constant voltage (CV) and constant current (CC) with automatic crossover Output Voltage: 0–30 V Output Current: 0–3000 A
Maximum Power Output: 90 kW Output Voltage Ripple: 50–400 mV RMS (model dependent)
Output Current Ripple: 0.02–5 A RMS (model dependent) Load Regulation (Voltage): $\pm 0.1\%$ typical
Line Regulation: $\pm 0.1\%$ typical Output Stability: $\pm 0.05\%$ for 8 hours under constant external conditions
Temperature Coefficient: $0.02\%/^{\circ}\text{C}$ (voltage and current, maximum rating) Recovery Time: Within 1% of final value in 200 ms typical for line variations $\pm 10\%$ or load changes between 50–100% of rating
AC Input: 460 VAC $\pm 10\%$, 50/60 Hz; operational 440–480 VAC Cooling: Forced air with variable-speed fan Protection: Built-in RFI protection Control: Contactor on/off interlock; metered output with mode indicator lights
Key Features Delivers up to 90 kW DC output with 3000 A maximum current capability Dual-mode regulation eliminates manual crossover switching between CV and CC operation Full metering and visual mode indication for operational transparency Variable-speed cooling optimizes thermal efficiency and reduces acoustic noise Wide AC input tolerance (440–480 VAC) accommodates utility supply variations
Typical Applications Electrolytic cell power, galvanizing systems, battery charging, materials testing, and industrial process control requiring stable, high-current DC delivery. Compatibility & Integration Legacy TDK-Lambda equipment. For new designs, TDK-Lambda recommends Genesys™ or GENESYS+™ series alternatives.

EMHP30 Characteristics / Specifications

PARAMETER	VALUE
Model	EMHP30
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power SCR DC Power Supply
Series	EMHP
Alias	EMHP30; EMHP 30; EMHP 30-600
Rated Output Voltage	0 to 30 Vdc
Example 20 kW	EMHP 30-600, 0-600 A, 70 mVrms
Example 30 kW	EMHP 30-800 (800 A) and EMHP 30-950 (950 A), 70 mVrms
Example 60 kW	EMHP 30-1250 and EMHP 30-1800, 70 mVrms
Example 90 kW	EMHP 30-3000, 0-3000 A, 70 mVrms
Output Mode	CV/CC automatic crossover
Regulation	0.1%
Stability	0.05%
AC Input Standard	440/480 Vac three phase 60 Hz
Ripple 30 V Rows	70 mVrms
Operating Temperature	0 to 50 C
Cooling	forced air
Protection	OVP, OTP, OCP
Remote Program	resistance, voltage, current
Digital Optional	RS-232 / IEEE-488
Faceplate Current	required to distinguish 600 A vs 800/950/1250/1800/3000 A
Interlock	contactor on/off
RFI	built-in Notes Specs from TDK-Lambda EMHP 30 V rows. Confirm current and kW on the nameplate.
Verified 20 kW example	EMHP 30-600, 0-600 A, 70 mVrms

PARAMETER	VALUE
Verified 90 kW example	EMHP 30-3000, 0-3000 A, 70 mVrms

EMHP30 Specifications

PARAMETER	VALUE
Lambda EMI EMHP30 30 V High Power SCR DC Supply Family	Overview
Applications	30 V high-current magnets, plating, and bulk DC.
Key Features	- 30 V EMHP family
Technical Specifications	Model: EMHP30
Notes	Specs from TDK-Lambda EMHP 30 V rows. Confirm current 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
Faceplate Current	required to distinguish 600 A vs 800/950/1250/1800/3000 A
Interlock	contactor on/off
RFI	built-in Notes Specs from TDK-Lambda EMHP 30 V rows. Confirm current 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	EMHP30
Manufacturer	Lambda EMI / TDK-Lambda
Instrument Type	High Power SCR DC Power Supply
Specifications	
PARAMETER	VALUE
Series	EMHP
Alias	EMHP30; EMHP 30; EMHP 30-600
Rated Output Voltage	0 to 30 Vdc
Specifications	
PARAMETER	VALUE
Example 20 kW	EMHP 30-600, 0-600 A, 70 mVrms
Example 30 kW	EMHP 30-800 (800 A) and EMHP 30-950 (950 A), 70 mVrms
Example 60 kW	EMHP 30-1250 and EMHP 30-1800, 70 mVrms
Specifications	
PARAMETER	VALUE
Example 90 kW	EMHP 30-3000, 0-3000 A, 70 mVrms
Output Mode	CV/CC automatic crossover
Regulation	0.1%
Specifications	
PARAMETER	VALUE
Stability	0.05%
AC Input Standard	440/480 Vac three phase 60 Hz
Ripple 30 V Rows	70 mVrms

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 50 C
Cooling	forced air
Protection	OVP, OTP, OCP

Specifications

PARAMETER	VALUE
Remote Program	resistance, voltage, current
Digital Optional	RS-232 / IEEE-488
Faceplate Current	required to distinguish 600 A vs 800/950/1250/1800/3000 A

Interlock: contactor on/off

RFI: built-in

Notes

Specs from TDK-Lambda EMHP 30 V rows. Confirm current 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 ·
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.