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Data Sheet

August 15, 2026

HITRON

HiTron HSU45-10 Power Supply

HiTron HSU45-10 5 V 9 A Eurocard Switching Power Supply The HiTron HSU45-10 is the single-output 5.0 V / 9.0 A member of the HSU45 45 W AC-DC Eurocard family. The HiTron HSU45/HSU60/HSU100 datasheet rates 115/230 Vac dual-selectable input, 47 to 63 Hz, HSU45 input current 0.88 A at 115 Vac / 0.44 A at 230 Vac, inrush typically 25 A at 230 Vac, hold-up typically 20 ms at 115 Vac and 50 ms at 230 Vac, line regulation typically 0.4 percent, main load regulation typically plus or minus 1.0 percent, ripple typically 1 percent peak to peak, efficiency typically 70 to 75 percent, switching typically 100 kHz, 3U x 6HP x 160 mm VME Eurocard, and mass 537.0 g. The HiTron HSU45-10 is the single-output 5.0 V / 9.0 A member of the HSU45 45 W AC-DC Eurocard family. The HiTron HSU45/HSU60/HSU100 datasheet rates 115/230 Vac dual-selectable input, 47 to 63 Hz, HSU45 input current 0.88 A at 115 Vac / 0.44 A at 230 Vac, inrush typically 25 A at 230 Vac, hold-up typically 20 ms at 115 Vac and 50 ms at 230 Vac, line regulation typically 0.4 percent, main load regulation typically plus or minus 1.0 percent, ripple typically 1 percent peak to peak, efficiency typically 70 to 75 percent, switching typically 100 kHz, 3U x 6HP x 160 mm VME Eurocard, and mass 537.0 g. 5 V logic power in 19 inch VME/Eurocard crates for embedded and ATE systems.



MODEL

HiTron HSU45-10

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

HSU45-10

LISTING

<https://aumictechlabs.com/products/hsu45-10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HiTron HSU45-10 is a 45 W switching mode power supply engineered for industrial and commercial VMEbus systems. This Eurocard-format unit delivers regulated 5 VDC at 9 A output with dual-selectable 115 Vac / 230 Vac input (47–63 Hz), making it suitable for distributed embedded applications demanding compact, reliable DC conversion. Forward-topology design ensures fast transient response and integrated protection against overload, short circuit, and overvoltage conditions.

Technical Specifications

Electrical Performance

Output: 5 VDC @ 9 A

Input: 115 Vac / 230 Vac (47–63 Hz, user-selectable)

Input current: 0.88 A @ 115 Vac; 0.44 A @ 230 Vac

Line regulation: $\pm 0.4\%$ typ.

Load regulation: $\pm 1.0\%$ typ. (main output)

Efficiency: 70–75% typ.

Switching frequency: 100 kHz typ.

Transient response: 3 mS typ. (25% load step)

Hold-up time: 20 mS @ 115 Vac / 50 mS @ 230 Vac

Earth leakage: 0.3 mA typ. @ 230 Vac

Physical & Thermal

Form factor: 3U $\times$ 6 HP $\times$ 160 mm (Eurocard, VMEbus-compatible)

Weight: 537 g

Cooling: Free air convection

Operating temperature: 0 to +50°C (full load); derates to +70°C (half load)

Storage temperature: –20 to +85°C

Temperature coefficient: 0.04%/°C typ.

Protection & Interfaces

Overload & short-circuit protection: Full

Overvoltage protection: Latch-type at main output

Remote sense: Installed on main output

Remote logic inhibit: Available

Power-fail signal: Installed

Input fuse: T2.0A / 250 Vac

Connectors: DIN 41612 (input/output, rear)

Key Features

Compact 3U Eurocard format fits standard VMEbus backplanes

Dual input voltage selection eliminates region-specific supply concerns

Built-in remote sense corrects line-drop errors in distributed systems

Fast transient settling (3 mS) supports dynamic loads

Low earth leakage meets Class I safety requirements

Integrated power-fail notification for system monitoring

Typical Applications

Industrial control and process automation

Embedded VMEbus systems and crate assemblies

Commercial telecommunications equipment

Instrumentation and test racks requiring regulated 5 V distribution

Compatibility & Integration

The HSU45-10 conforms to IEC 60950-1 / UL 60950-1 Class I and meets CISPR 22 & FCC Class B EMI limits. DIN 41612 rear connectors ensure compatibility with standard Eurocard backplane installations. Remote inhibit and sense functions allow integration with larger power distribution and monitoring schemes. Limited current availability; replacement models such as HSU45-10N may be available from the manufacturer.

HSU45 Characteristics / Specifications

PARAMETER	VALUE
Model	HSU45-10
Instrument Type	Single output Eurocard AC-DC switching supply
Main Output	5.0 V at 9.0 A typical
Output Wattage	45 W typical
Input Voltage	115 Vac / 230 Vac dual selectable
Input Frequency	47 to 63 Hz
Input Current	0.88 A at 115 Vac, 0.44 A at 230 Vac
Inrush Current	typically 25 A at 230 Vac
Input Fuse	T2.0 A / 250 Vac
Hold Up Time	typically 20 ms at 115 Vac, 50 ms at 230 Vac
Earth Leakage	typically 0.3 mA at 230 Vac
Line Regulation	typically 0.4 percent
Load Regulation Main	typically plus or minus 1.0 percent
Noise Ripple	typically 1 percent peak to peak
Efficiency	typically 70 to 75 percent
Switching Frequency	typically 100 kHz
Topology	forward converter
Transient Response	typically 3 ms after 25 percent load change
Power Density	1.4 W per cubic inch
Form Factor	3U x 6HP x 160 mm 19 inch Eurocard VMEbus
Connector	DIN 41612 H15 female mating
Mass	537.0 g (18.94 oz)
Operating Temperature	0 to plus 50 C full load, derate linearly to plus 70 C at half load
Storage Temperature	minus 20 to plus 85 C
Temperature Coefficient	typically 0.04 percent perCCooling: free air convection

PARAMETER	VALUE
Safety Class	IEC 60950-1 / UL 60950-1 ClassIEmi Class: CISPR PUB. 22 and FCC ClassBManufacturer: HiTron Electronics
Literature	HiTron HSU45 HSU60 HSU100 dual selectable Eurocard datasheet ratings chart
Family	HSU45 45 W Eurocard supplies
Brand Lineage	HiTron Electronics
System Role	5 V crate power Notes Numeric rows from the HiTron HSU45/HSU60/HSU100 datasheet (HSU45-10 5.0 V / 9.0 A, 45 W, 0.88/0.44 A input, 20/50 ms hold-up, 3U x 6HP x 160 mm, 537.0 g). Pin map and OVP/sense notes are on the same HSU45 ratings and connector pages.

General Specifications & Supplementary Characteristics

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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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Notes

Numeric rows from the HiTron HSU45/HSU60/HSU100 datasheet (HSU45-10 5.0 V / 9.0 A, 45 W, 0.88/0.44 A input, 20/50 ms hold-up, 3U x 6HP x 160 mm, 537.0 g). Pin map and OVP/sense notes are on the same HSU45 ratings and connector pages.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.