Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 14, 2026

AMETEK / ELGAR / SORENSEN

Ametek / Elgar / Sorensen DCS40-75E 3 kW Power Supply

Ametek / Elgar / Sorensen DC Power Supplies. Voltage: 0–40 VDC, Current: 0–75 ADC, Accuracy: ±1% of full scale + 1 count.

MODEL **Ametek / Elgar / Sorensen DCS40-75E**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **DCS40-75E**	LISTING **https://aumictechlabs.com/products/dcs40-75e-3/**

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

This unit

The Ametek/Elgar/Sorensen DCS40-75E is a 3 kW programmable DC power supply delivering 0–40 VDC at 0–75 ADC for demanding R&D, manufacturing, and automated test applications. Built in a compact 1U chassis, it combines precision voltage and current regulation with dual-mode operation, remote programming via Ethernet/RS-232/IEEE-488.2, and comprehensive protection. Ten-turn potentiometers enable high-resolution front-panel control, while simultaneous digital metering and selectable remote sensing accommodate varied test configurations.Technical Specifications Output Characteristics Voltage: 0–40 VDC Current: 0–75 ADC Power: 3 kW (3000 W) Line and load regulation: 0.2% Constant voltage ripple (RMS): 20 mV Constant voltage noise (peak-to-peak): 100 mV Transient response: 1 ms typical Meter accuracy: ±1% of full scale + 1 count Voltage drift: 0.05% Vmax typical Temperature coefficient (voltage): 0.02%/°C typical Input

Power AC input: 190–250 VAC, three-phase, 47–63 Hz (configurable for 200–250 VAC single-phase at 2500 W reduced capacity) Input current: 14 A (three-phase), 20 A (single-phase) Remote Sensing & Programming Maximum sense line drop: 1 V/line for 3 kW models Voltage programming: LXI-compliant Ethernet LAN / RS-232C (16-bit); IEEE-488.2 / RS-232C (12-bit); isolated analog (optional) Programming constant (voltage): 125 Ω/V; 0–10 V or 0–5 V = 0–100% V_0Key Features Constant Voltage and Constant Current modes with automatic crossover Ten-turn potentiometers for precise output control Simultaneous voltage and current digital display Over-voltage protection adjustable 5–110% of rated output External TTL/AC/DC shutdown and remote start/stop (TTL or 12–250 VAC / 12–130 VDC) Over-temperature protection with LED indicators and automatic shutdown Internal fan cooling Stackable in parallel or series configurationsSafety & Standards UL/CSA 61010 and IEC/EN 61010-1 certified; CE compliant (LVD and EMC directives).Physical Specifications Dimensions: 482 mm W × 445 mm D × 87 mm H (1U profile) Weight: 33 lb

DCS4075E Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 40 V
Output Current	0 to 75 A
Output Power	3000 W
Series Family	Sorensen DCS
Operating Modes	CV/CC
Brand Lineage	Ametek / Elgar / Sorensen
Programming	analog standard; digital options
Protection	OVP current limit thermal
Form Factor	rack DCS chassis
Metering	voltage and current
Remote Sense	yes on series
Line Regulation Class	per DCS40-75E datasheet
Load Regulation Class	per DCS40-75E datasheet
Ripple Noise Class	per DCS40-75E datasheet
Operating Temperature Class	per DCS series
AC Input Class	high-power AC input
Efficiency Class	per DCS series table
Calibration Class	per calibration certificate
Intended Use	3 kW programmable DC
Faceplate Confirm Class	confirmEoption interface on unit
Sibling Models	DCS33-33 and related DCS kW models
Operating temperature	Class: per DCS series

DCS4075E Specifications

PARAMETER	VALUE
Applications	ATE burn-in, magnet control, and industrial DC bias at 3 kW.
Key Features	3 kW DCS series supply
CV/CC automatic crossover	Analog programming standard on series
Technical Specifications	Output Voltage: 0 to 40 V
Notes	From Sorensen/Ametek DCS Series programmable DC power supply literature for DCS40-75E.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: per DCS series
Operating Temperature	Class: per DCS series
Operating Temperature Class	per DCS series
AC Input Class	high-power AC input
Efficiency Class	per DCS series table
Calibration Class	per calibration certificate
Intended Use	3 kW programmable DC
Faceplate Confirm Class	confirmEoption interface on unit
Sibling Models	DCS33-33 and related DCS kW models Notes From Sorensen/Ametek DCS Series programmable DC power supply literature for DCS40-75E.

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
Output Voltage	0 to 40 V
Output Current	0 to 75 A
Output Power	3000 W
Series Family	Sorensen DCS
Operating Modes	CV/CC
Brand Lineage	Ametek / Elgar / Sorensen
Programming	analog standard; digital options
Protection	OVP current limit thermal
Form Factor	rack DCS chassis
Metering	voltage and current
Remote Sense	yes on series
Line Regulation Class	per DCS40-75E datasheet
Load Regulation Class	per DCS40-75E datasheet
Ripple Noise Class	per DCS40-75E datasheet
Operating Temperature Class	per DCS series
AC Input Class	high-power AC input
Efficiency Class	per DCS series table
Calibration Class	per calibration certificate
Intended Use	3 kW programmable DC

Option Code: E
Faceplate Confirm Class: confirmEoption interface on unit
Sibling Models: DCS33-33 and related DCS kW models

Notes
From Sorensen/Ametek DCS Series programmable DC power supply literature for DCS40-75E.

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

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026