

ORENSEN (AMETEK)

DHP 80-25

The Sorensen (Ametek) DHP 80-25 is a high-power, programmable DC power supply featuring a unique modular design with an output rating of 80V and 25A. Offering up to 2000W of precision power, this 3U rackmount unit is designed for versatile laboratory and industrial testing. It features comprehensive diagnostic displays, robust protection mechanisms (including overvoltage, overcurrent, and over-temperature), and versatile interface options such as standard RS-232 and optional GPIB.

SPECIFICATIONS

General

Interfaces	RS-232 (standard), GPIB / IEEE-488 (optional)
Display	Digital display showing output power, voltage, current, set points, AC input voltage, air inlet temperature, sequence settings, and diagnostics

Physical

Power Supply	190 - 250 VAC, 47 - 63 Hz
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	483 mm × 133 mm × 457 mm mm

Output Specifications

Rated Output Voltage Range	0 - 80 VDC
Rated Output Current Range	0 - 25 A
Maximum Output Power	2000 W

Protection and Diagnostics

Over Voltage Protection (OVP)	Yes
Over Current Protection (OCP)	Yes
Over Temperature Protection (OTP)	Yes
Surge Limit Protection	Yes
Soft Start Protection	Yes
Brown Out Protection	Yes
Short Circuit Protection	Yes
Diagnostics Fault Status Summary	Yes (via display)

Control and Interface

Power-Off Memory	Restores supply settings via LAST SET button after input power is enabled
External Shutdown	Output inhibit via external shutdown control
Front Panel Lockout	Disables front panel controls during remote operation
Front Panel Controls	Up/down arrows for controlling voltage, current, and step changes
Remote Operation Setup	Configurable via display menu

Display and Monitoring

Output Power Display	Displays real-time and highest output power
Output Voltage Display	Displays present and highest output voltage, set points, and limits
Output Current Display	Displays present and highest output current, set points, and limits
AC Input Voltage Monitoring	Displays present and highest AC input voltage
Air Inlet Temperature Monitoring	Displays present and highest air inlet temperature
Sequence Settings Display	Displays power and auto-step sequence settings
Calibration Setup Display	Displays calibration setup configurations

Physical Characteristics

Form Factor	Rackmount
Chassis Height (U-Size)	3U

Performance

Voltage Line Regulation	0.1% of max output
Voltage Load Regulation	0.1% of max output
Current Line Regulation	0.1% of max output
Current Load Regulation	0.1% of max output
Remote Sense Compensation	Up to 5 V total line drop

Programming & Readback

Voltage Programming Accuracy	±0.5% of full scale
Current Programming Accuracy	±0.5% of full scale

Environmental

Cooling	Forced-air cooling with front/side intake and rear exhaust
Operating Humidity	Up to 90% RH, non-condensing
Storage Temperature Range	-40 °C to +85 °C

Compliance

Regulatory Approvals	CE, CSA
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TECHNOLOGY

Switch-mode DC Power Supply

APPLICATIONS

High-power DC test and measurement, automated test equipment (ATE), battery simulation, and product burn-in testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.