

ORENSEN (AMETEK)

DHP 100-20

The Sorensen (Ametek) DHP 100-20 is a high-power programmable DC power supply from the digital DHP series. Delivering up to 100 V and 20 A of output, it offers 2 kW of clean, configurable power with a unique modular design. It features extensive front-panel digital diagnostics, comprehensive protection circuitry, standard RS-232 communication, and optional GPIB capability, making it ideal for robust automated test equipment (ATE) and laboratory environments.

SPECIFICATIONS

General

Interfaces	RS-232 (standard), GPIB (IEEE-488) (optional)
Display	Digital display showing rating, output power, voltage, current, set points, limits, input voltage, inlet temperature, and diagnostics

Physical

Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	483 x 133 / 222 / 311 (power dependent) x 610 mm mm
Weight	34 / 64 / 95 kg (power dependent) kg

Output Specifications

Rated Output Voltage Range	0 - 100 V
Rated Output Current Range	0 - 20 A
Maximum Output Power	2000 W

Control and Interface

External Shutdown Input	Inhibits the output via external command
Front Panel Controls	Up/down arrows for controlling voltages, current, and step changes
Front Panel Lockout	Disables most front panel controls during remote operation
Standard Digital Interface	RS-232
Optional Digital Interface	GPIB (IEEE-488)

Protection and Diagnostics

Overcurrent Protection (OCP)	Yes
Overvoltage Protection (OVP)	Yes
Overtemperature Protection (OTP)	Yes
Soft Start	Yes
Brown Out Protection	Yes
Short Circuit Protection	Yes
Diagnostic Fault Status	Diagnostics fault status summary on front panel

Monitoring and Diagnostics

Display Parameters - Power Supply Rating	Yes
Display Parameters - Output Power	Yes
Display Parameters - Output Voltage	Yes
Display Parameters - Output Current	Yes
Display Parameters - Set Points & Limits	Displays all power, voltage, and current set points and limits
Display Parameters - AC Input Voltage	Displays present and highest AC input voltage
Display Parameters - Air Inlet Temperature	Displays present and highest air inlet temperature
Display Parameters - Sequence Settings	Displays power and auto-step sequence settings
Display Parameters - Calibration Setup	Yes
Display Parameters - Remote Setup	Yes

Performance

Voltage Line Regulation	0.1% of max rating
Voltage Load Regulation	0.1% of max rating
Current Line Regulation	0.1% of max rating
Current Load Regulation	0.15% of max rating
Voltage Stability	0.05% of max rating over 8 hours after 30-minute warm-up
Voltage Temperature Coefficient	0.02% of max rating per °C
Current Temperature Coefficient	0.03% of max rating per °C

Environmental

Storage Temperature Range	-25 °C to +85 °C
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TECHNOLOGY

Switching programmable DC power supply

APPLICATIONS

Test and measurement, ATE systems, laboratory power, and industrial automation

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