

ORENSEN (AMETEK)

DHP 30-66

The Sorensen DHP 30-66 is a high-power programmable DC power supply from AMETEK Programmable Power, delivering up to 30V and 66A (1980W). Part of the modular DHP Series, it features comprehensive digital displays, robust protection mechanisms, and power-off memory for automated and manual test environments.

SPECIFICATIONS

General

Display	Digital display showing voltage, current, power, limits, AC input voltage, air inlet temperature, and diagnostics
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Physical

Power Supply	190 - 250 VAC, single-phase or three-phase, 47 - 63 Hz (configuration dependent)
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Operating Temperature	0 to 50 °C (typical) °C
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Dimensions (W×H×D)	483 mm × 133 mm × 508 mm mm
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Weight	20.4 kg kg
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DC Output Specifications

Rated Output Voltage	0 - 30 VDC
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Rated Output Current	0 - 66 ADC
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Rated Output Power	1980 W
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Protection and Isolation Features

Overvoltage Protection (OVP)	Yes
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Overcurrent Protection (OCP)	Yes
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Over Temperature Protection (OTP)	Yes
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Short Circuit Protection	Yes
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Brown Out Protection	Yes
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Surge Limit Protection	Yes
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Soft Start	Yes
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Front Panel Lockout	Yes (disables front panel controls in remote operation)
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System Connectivity and Control

Power-Off Memory	Yes (LAST SET button restores supply settings)
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External Shutdown	Yes (inhibits output via external control)
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User Interface and Display

Front Panel Controls	Up/down arrows for voltage/current/step changes, LAST SET button
Display Parameter - Output Power	Yes
Display Parameter - Output Voltage	Yes
Display Parameter - Output Current	Yes
Display Parameter - Voltage and Current Set Points	Yes
Display Parameter - AC Input Voltage	Present and highest AC input voltage
Display Parameter - Air Inlet Temperature	Present and highest air inlet temperature
Display Parameter - Auto-Step Sequence	Yes
Display Parameter - Calibration Set-up	Yes
Display Parameter - Remote Operation Set-up	Yes
Display Parameter - Diagnostics Fault Status Summary	Yes

Environmental Specifications

Cooling Method	Forced air cooling
Storage Temperature Range	-40°C to +85°C
Operating Humidity	Up to 95% RH (non-condensing)
Maximum Operating Altitude	3,000 m (10,000 ft)

Regulation & Performance

Line Regulation (Voltage)	0.1% of rated voltage
Load Regulation (Voltage)	0.1% of rated voltage
Line Regulation (Current)	0.1% of rated current
Load Regulation (Current)	0.1% of rated current

AC Input

Input Frequency	47 - 63 Hz
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Performance

Voltage Programming Accuracy	$\pm(0.1\% \text{ of setting} + 0.1\% \text{ of max})$
Current Programming Accuracy	$\pm(0.2\% \text{ of setting} + 0.2\% \text{ of max})$
Voltage Readback Accuracy	$\pm(0.1\% \text{ of reading} + 0.15\% \text{ of max})$
Current Readback Accuracy	$\pm(0.2\% \text{ of reading} + 0.25\% \text{ of max})$
Output Voltage Ripple (RMS)	15 mV
Output Voltage Ripple (P-P)	75 mV
Remote Sense Compensation	Up to 5 V total line drop (2.5 V per lead)
Voltage Temperature Coefficient	0.02% of maximum output voltage per °C
Current Temperature Coefficient	0.03% of maximum output current per °C

Electrical

Power Factor	0.95 minimum (with active PFC)
AC Input Current	15 A (single phase) / 9 A (three phase) @ 190-250 VAC

Inputs & Outputs

Analog Programming Inputs	0-5 V, 0-10 V, or 0-1 mA (user selectable)
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TECHNOLOGY

Programmable DC Power Supply

APPLICATIONS

High-power DC test and measurement, laboratory power, automated test systems (ATE)

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