

ORENSEN (AMETEK)

DHP 60-110

The Sorensen DHP 60-110 (by AMETEK) is a programmable, high-power DC switching power supply designed for demanding test and measurement applications. Offering a modular profile design, it delivers up to 60V and 110A (6.6 kW) of precise, stable DC power. It features advanced digital metering and diagnostics—including AC input voltage and air inlet temperature monitoring—along with extensive system protection features and power-off memory recovery.

SPECIFICATIONS

General

Interfaces	Analog, RS-232 (Standard); GPIB / IEEE-488 (Optional)
Display	Digital Displays for output power, voltage, current, set points, AC input, air inlet temperature, and diagnostics

Physical

Power Supply	3-Phase AC input (e.g., 208 / 380 / 400 / 480 VAC configuration dependent), 47 - 63 Hz
Operating Temperature	0 to 50 °C °C
Chassis Height	3U

Output Specifications

Rated Output Voltage	0 - 60 VDC
Rated Output Current	0 - 110 ADC
Maximum Output Power	6600 W (6.6 kW)
Constant Voltage Mode	Yes
Constant Current Mode	Yes

AC Input Specifications

AC Input Phase Configuration	3-Phase, 3-wire plus ground
AC Input Frequency Range	47 - 63 Hz

Protection and System Functionality

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
External Shutdown	Yes (Inhibits output via external control)
Front Panel Lockout	Yes (Disables most front panel controls during remote operation)
Power-Off Memory	Yes (Restores settings by pushing LAST SET button when input power is enabled)

Control and Communication Interfaces

Up/Down Arrow Controls	Yes (Controls voltages, step changes, and current)
Power Supply Rating Display	Yes
Output Power Metering	Yes (Displays present output power)
Output Voltage/Current Metering	Yes (Displays present output voltage and current)
Set Point and Limit Metering	Yes (Displays all power, voltage, and current set points and limits)
AC Input Voltage Monitoring	Yes (Displays present and highest AC input voltage)
Air Inlet Temperature Monitoring	Yes (Displays present and highest air inlet temperature)
Auto-Step Sequence Settings Display	Yes
Calibration Set-Up Display	Yes
Remote Operation Set-Up Display	Yes
Diagnostics Fault Status Summary	Yes

Physical and Mechanical

Chassis Design	Modular design (three rackmount profiles based on output power)
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Power Requirements

AC Input Voltage Options	208 VAC / 380 VAC / 400 VAC / 480 VAC (three-phase, option dependent)
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Environmental

Cooling System	Forced air cooling, front intake, rear exhaust
Storage Temperature Range	-40 °C to +85 °C

Performance

Remote Sense Compensation	Up to 5 V total line drop
Stability	0.05% of maximum rated output over 8 hours (after 30-minute warm-up)
Voltage Temperature Coefficient	0.02% of maximum rated output voltage per °C
Current Temperature Coefficient	0.03% of maximum rated output current per °C

Regulation

Voltage Line Regulation	0.1% of rated output voltage
Voltage Load Regulation	0.1% of rated output voltage
Current Line Regulation	0.1% of rated output current
Current Load Regulation	0.1% of rated output current

Programming & Control

Analog Programming Input Options	0-5 V, 0-10 V, 0-5 kΩ, or 0-10 kΩ (user selectable)
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Power Specification

Typical Efficiency	> 85% at full load
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TECHNOLOGY

Switching

APPLICATIONS

Programmable DC Power Supply

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