

ORENSEN (AMETEK)

DCR150

The Sorensen DCR150 is a series of highly regulated, SCR-controlled programmable DC power supplies from the DCRA/B family, designed for both benchtop and rack-mount applications. These phase-controlled systems feature Silicon Controlled Rectifiers (SCRs) or Triacs paired with passive LC filters, offering reliable, high-power DC outputs with high efficiency and robust protection features such as over-voltage protection (OVP) and remote sensing.

SPECIFICATIONS

General

Interfaces	Analog remote programming (voltage, current, and shutdown)
Display	Dual analog meters (voltmeter and ammeter)

Physical

Operating Temperature	0 to 70 °C °C
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Output Specifications

Rated Output Voltage Range	0 to 150 VDC
Voltage Line Regulation	±0.05% of maximum output voltage
Voltage Load Regulation	±0.05% of maximum output voltage
Current Line Regulation	±0.25% of maximum rated current
Current Load Regulation	±0.25% of maximum rated current
Output Ripple and Noise (RMS)	150 mV
Transient Recovery Time	50 ms (typical, for a 50% load change)
Temperature Coefficient (Voltage)	0.015% per °C of maximum output voltage
Temperature Coefficient (Current)	0.05% per °C of maximum output current
Operating Modes	Constant Voltage (CV) and Constant Current (CC) with automatic crossover

AC Input Specifications

Input Frequency Range	57 to 63 Hz (47 to 63 Hz optional)
Input Phase	Single-phase

Protection and Diagnostics

Over-Voltage Protection (OVP) Range	15 to 165 VDC (adjustable via front/rear panel)
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Control and Interface

Series/Parallel Configuration Capacity	Series and parallel operation supported
Remote Shutdown/Enable Input	Supported (built-in unit shutdown circuit)

Environmental and Safety

Operating Temperature Derating	Full power up to 50 °C, derated linearly to 40% at 70 °C
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Physical Characteristics

Form Factor	Benchtop or rack-mountable
Front Panel Controls	Power circuit breaker, fine and coarse voltage adjust potentiometers, fine and coarse current adjust potentiometers
DC Output Connection Type	Rear terminal strip TB2

Environmental

Storage Temperature Range	-40°C to +85°C
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TECHNOLOGY

SCR (Silicon Controlled Rectifier) Phase-Controlled

APPLICATIONS

Industrial, Laboratory, and ATE DC Power Supply

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