



Above: SC-DD1628S0AF-0

## Purpose-Built DC PDUs from Spectrum Control

*Intelligent power you can trust.*

### Built for Mission-Critical Applications

Our PDUs are engineered for performance in the toughest conditions—extreme temperatures, shock, vibration, and moisture. Whether in a lab, field, or mobile platform, you can count on Spectrum Control for dependable power delivery.

- Operating range: -40°C to +70°C
- Shock & vibration resistant
- Rapid restart for maximum uptime

### Intelligent Control, Anywhere

Stay in control—locally or remotely. Our PDUs offer programmable monitoring of current, voltage, and temperature per port. Configure alerts, set limits, and sequence start-up with precision.

- Per-port monitoring & control
- System logging & fault alerts
- Secure remote access

### Engineered for Long Life Cycles

Spectrum Control PDUs are for longevity using high-performance components with long-term availability in mind. Designed to support extended lifecycles and field upgrades.

### Tested. Trusted. Proven.

Our field-proven PDUs are designed and qualified to meet or exceed military and industry standards, including:

- MIL-STD-810H: Environmental & Mechanical
- MIL-STD-461G: Electromagnetic Compatibility

# Specifications:

## Input Characteristics

Voltage	10-33VDC
Total Current	160A
Inputs	2 x 1-Pole/80A Breaker w/ high current input lug connections (1/4in – 20in)
Power Dissipation	9W internal, 25W nominal at rated current
Input Monitoring	Voltage measurement +/- 1%
	Current measurement +/- 5%
	Temperature
Transient/Surge Protection	TVS Diode – Bi-directional Voltage Transient / Surge Protection / 30kW peak pulse capability, 1.0 pS fast response

## Output Characteristics

Voltage	10-33VDC
Banks	2 Banks, 80A per Bank, 5 Ports per Bank, 40A Maximum per Port (50A peak surge)
Output Ports	2x Anderson Power Pole with Retention Screw
Output Monitoring per Port	Voltage measurement +/- 1%
	Current measurement +/- 5%
	Temperature

## Mechanical Characteristics

Material	Aluminum
Finish	Powder Coat, Black, Fine Texture
Lettering	Silk Screen, White
Mounting	Brackets accommodate Front or Mid Mount
Weight	5kg

# Specifications Continued:

## Communication

USB Type C connector

10/100/1000 Base-T (MIL-C-26482 RJ-45 Connector)

Supports SNMPv1/2c-3

## Operation Environment

Operating Temperature -40C to +70C

Storage Temperature -40C to +80C

Relative Humidity 0 – 90% (non-Condensing)

Elevation 0 – 3,050 meters

Internal and External Temperature Sensing

## Environmental

MIL-STD-461G

*MIL-STD-810H*

501.7 Procedure II

507.6 Procedure II

514.8 Procedure I

516.8 Procedures IV & V

## Orderable Part Numbers:

Part Number	General Description	Type	Function	Current	Voltage	Input Con	Cord (2' inc.)	Output Receptacle	Ethernet Location
SC-DD1628S0AF-0	DC PDU, 16A, 28V, 1/4-in x 20 Stud, Anderson PP, RJ45 F	D	D	160A	28V	1/4-in x 20 Stud	0	Anderson PowerPole	Front
SC-DD2028S0AF-0 *Planned for 1Q2026	DC PDU, 20A, 28V, 1/4-in x 20 Stud, Anderson PP, RJ45 F	D	D	200A	28V	1/4-in x 20 Stud	0	Anderson PowerPole	Front
SC-DD2048S0AF-0 *Planned for 1Q2026	DC PDU, 20A, 280V, 1/4-in x 20 Stud, Anderson PP, RJ45 F	D	D	160A	-48V	1/4-in x 20 Stud	0	Anderson PowerPole	Front

**NOTE:** All PDUs come with accessory kit, rack ears and screws for mounting.





# Dimensional Drawing:

