



Top: SC-AD2012C0NF-0 Middle: SC-AD2012Q0NR-0 Bottom: SC-AD2012B6NR-0

Purpose-Built AC 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 +60°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	85-132 / 170-250 VAC
Frequency	60 / 50 Hz +/- 3Hz
Line Current capacity	30A
Input Voltage and Current Monitoring	Voltage measurement +/- 1% Current measurement +/- 2.7%
Overload Protection	20A or 30A UL489 circuit breaker
Attached Power Cord	Selectable lengths and plugs
Transient / Surge Protection	UL 1449 MOVs, Line-to-Neutral, Line-to-Ground, Neutral-to-Ground Thermal protection Transient Energy (2mS): 100J Peak Surge Current (8/20uS): 10kA single pulse Maximum Clamping Voltage (8/20uS): 340V @ 100A pk (120V variant) Maximum Clamping Voltage (8/20uS): 710V @ 100A pk (240V variant)
EMI Filtering	Power Line Filter (FHSA series) on input 30dB CM / 26dB DM @ 1MHz 55dB CM / 64dB DM @ 10MHz 45dB CM / 35dB DM @ 30MHz
Internal Power Consumption	30W

Output Characteristics

Voltage	85-132 / 170-250 VAC
Current	20A Maximum per Outlet 30A Maximum Total Combined Load
Outlets	Selectable receptacles
Output Voltage & Current Monitoring on each Outlet	Voltage measurement +/- 1% Current measurement +/- 2.7%

Mechanical Characteristics

Material	Aluminum
Finish	Powder Coat, Black, Fine Texture
Lettering	Silk Screen, White
Mounting	Brackets accommodate Front or Mid Mount
Weight	4kg

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 +60C

Storage Temperature -40C to +80C

Relative Humidity 0 – 95% (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

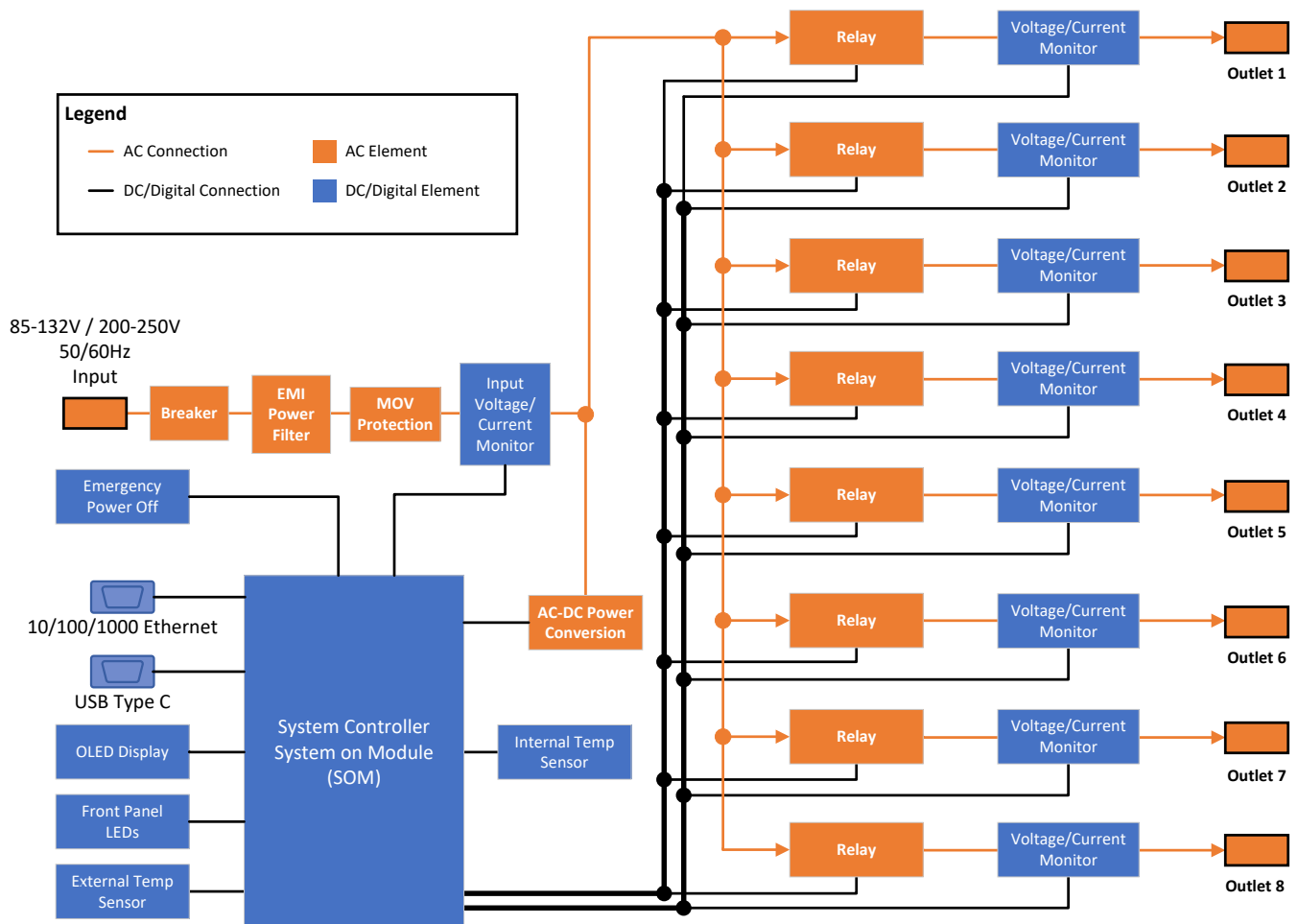
514.8 Procedure I

516.8 Procedures IV & V

Orderable Part Numbers:

Part Number	General Description	Type	Function	Current	Voltage	Input Con	Cord (in / ft)	Output Receptacle	Ethernet Location
SC-AD2012B2NF-0	AC PDU, 20A, 120V, RJ45 F	A	D	20A	120VAC	5-20P 125/20	4	5-20R 125/20	Front
SC-AD2012B2NR-0	AC PDU, 20A, 120V, RJ45 R	A	D	20A	120VAC	5-20P 125/20	4	5-20R 125/20	Rear
SC-AD2012B6NF-0	AC PDU, 20A, 120V, RJ45 F	A	D	20A	120VAC	5-20P 125/20	12	5-20R 125/20	Front
SC-AD2012B6NR-0	AC PDU, 20A, 120V, 5-20P 125/20, 5-20R 125/20, RJ45 R	A	D	20A	120VAC	5-20P 125/20	12	5-20R 125/20	Rear
SC-AD2012C0CF-0	AC PDU, 20A, 120V, IEC C20 male, IEC C13, RJ45 F	A	D	20A	120VAC	IEC C20 male	0	IEC C13	Front
SC-AD2012C0NF-0	AC PDU, 20A, 120V, IEC C20 male, 5-20R 125/20, RJ45 F	A	D	20A	120VAC	IEC C20 male	0	5-20R 125/20	Front
SC-AD2012Q0NR-0	AC PDU, 20A, 120V, 97-3102A-20-19P(689), 5-20R 125/20, RJ45 R	A	D	20A	120VAC	IEC C20 male	0	5-20R 125/20	Rear
SC-AD2022C0EF-0	AC PDU, 20A, 220V, IEC C20 male, IEC C19, RJ45 F	A	D	20A	220VAC	IEC C20 male	0	IEC C19	Front
SC-AD2024C0DF-0	AC PDU, 20A, 240V, IEC C20 male, IEC C21, RJ45 F	A	D	20A	240VAC	IEC C20 male	0	IEC C21	Front
SC-AD2024J2EF-0	AC PDU, 20A, 240V, L6-20P 250/20, IEC C19, RJ45 F	A	D	20A	240VAC	L6-20P 250/20	4	IEC C19	Front
SC-AD2024J2ER-0	AC PDU, 20A, 240V, L6-20P 250/20, IEC C19, RJ45 R	A	D	20A	240VAC	L6-20P 250/20	4	IEC C19	Rear
SC-AD2024J6EF-0	AC PDU, 20A, 240V, L6-20P 250/20, IEC C19, RJ45 F	A	D	20A	240VAC	L6-20P 250/20	12	IEC C19	Front
SC-AD2024J6ER-0	AC PDU, 20A, 240V, L6-20P 250/20, IEC C19, RJ45 R	A	D	20A	240VAC	L6-20P 250/20	12	IEC C19	Rear
SC-AD3012C0NF-0	AC PDU, 30A, 120V, IEC C20 male, 5-20R 125/20, RJ45 F	A	D	30A	120VAC	IEC C20 male	0	5-20R 125/20	Front
SC-AD3012G2NF-0	AC PDU, 30A, 120V, L5-30P 125/30, 5-20R 125/20, RJ45 F	A	D	30A	120VAC	L5-30P 125/30	4	5-20R 125/20	Front
SC-AD3012G2NR-0	AC PDU, 30A, 120V, L5-30P 125/30, 5-20R 125/20, RJ45 R	A	D	30A	120VAC	L5-30P 125/30	4	5-20R 125/20	Rear
SC-AD3012G6NF-0	AC PDU, 30A, 120V, L5-30P 125/30, 5-20R 125/20, RJ45 F	A	D	30A	120VAC	L5-30P 125/30	12	5-20R 125/20	Front
SC-AD3012G6NR-0	AC PDU, 30A, 120V, L5-30P 125/30, 5-20R 125/20, RJ45 R	A	D	30A	120VAC	L5-30P 125/30	12	5-20R 125/20	Rear
SC-AD3024H2EF-0	AC PDU, 30A, 240V, L6-30P 250/30, IEC C19, RJ45 F	A	D	30A	240VAC	L6-30P 250/30	4	IEC C19	Front
SC-AD3024H2ER-0	AC PDU, 30A, 240V, L6-30P 250/30, IEC C19, RJ45 R	A	D	30A	240VAC	L6-30P 250/30	4	IEC C19	Rear
SC-AD3024H6EF-0	AC PDU, 30A, 240V, L6-30P 250/30, IEC C19, RJ45 F	A	D	30A	240VAC	L6-30P 250/30	12	IEC C19	Front
SC-AD3024H6ER-0	AC PDU, 30A, 240V, L6-30P 250/30, IEC C19, RJ45 R	A	D	30A	240VAC	L6-30P 250/30	12	IEC C19	Rear

Block Diagram:



Dimensional Drawing:

