



DESCRIPTION:

Model ACS-1509-VTE power distribution panel with advanced surge protection and line voltage monitor features nine NEMA outlets (15A). Eight rear outlets include switched outlets (controlled by switch) and unswitched outlets (always on). The front convenience outlet is unswitched. All outlets are clearly marked to assist the integrator in making proper connections. The lighted rocker activation switch makes it easy to see at-a-glance when the switched outlets are powered. The unit includes a system circuit breaker plus a separate circuit breaker that independently protects the front outlet, minimizing the possibility of system disruption when a non-system device is connected in the front.

Advanced Surge Protection provides three layers of protection for equipment on a single circuit. When fully active, triple clamping redundant (TCR™) technology protects against power surges up to 72,000A.

The Voltage Tolerance Envelope (VTE) monitors AC line voltage and turns power to outlets off when line voltage exceeds 140V or drops below 100V. Auto reset restores power when acceptable line voltage is detected.

FEATURES:

- **Outlets:** Total of nine NEMA outlets, which are either switched (controlled by switch) or unswitched (always on).
 - Front Outlets:
NEMA 5-15R (1 unswitched single)
 - Rear Outlets:
NEMA 5-15R (1 unswitched single, 3 switched single, 1 unswitched duplex, 1 switched duplex)
- **Rocker Switch:** Lighted rocker activation switch controls a total of five (5) outlets, all in the rear.
- **Power Rating:** 120VAC, 60Hz, 15A, 1800W
- **Circuit Breaker Protection:** 15A system circuit breaker plus a separate 5A circuit breaker that independently protects the front outlet.

- **Advanced Surge Protection:** Three stage protection features TCR surge suppression technology, providing the assurance of Grade A, Class 1, Mode 1 endurance and performance with visual diagnostic LEDs (see "Surge Suppression & A11" paper at lowellmfg.com). A green LED for each stage indicates online status. Should a stage go offline (or fail to light), the remaining stages still provide protection at their same clamping and surge levels. *In that unlikely event the original purchaser should contact Lowell for repair or replacement under Lowell's TCR technology 10 year warranty.*

- **Maximum surge current:** 72,000A (exceeds UL1449-4 6000V, 3000A)
- **Initial clamping voltage:** 205V, UL rating 400V
- **Endurance:** IEEE C62.41-1991, B3 (C1), Pulses (lifetime): 1kv≥1,000,000; 3kv≥100,000; 6kv≥5,000
- **Transient noise reduction:** 25dB@100kHz; 50dB@1MHz
- **Response time:** Less than 5 nanoseconds
- **Protection mode:** Line to neutral, zero ground leakage
- **UL1449-2 adjunct results:** 1000 surges, 6000 volts, 3000A, C1 and B3 waveforms (IEEE C62.41), No failures
- **Diagnostic LEDs:** One green LED for each stage. All stages active when all lit.
- **Applicable standards:** Conforms to UL1449-4, IEEE standard 587-80 A & B, IEEE standard C62.41-1991, IEC 1000-4-5-1995 (IEC 801-5).
- **EMI/RFI filter:** 19dB@500kHz, 42dB@30MHz

- **Voltage Tolerance Envelope:** Also known as over/under voltage protection, the VTE monitors AC line voltage and turns power to outlets off when line voltage exceeds 140V or drops below 100V. Auto reset restores power when acceptable line voltage is detected.

Color-coded LEDs show system status:

- Green = voltage normal 110V-130V
- Yellow = voltage caution 105V or 135V
- Red = voltage shutdown <100V or >140V



- **Chassis:** Steel 1U chassis with black powder epoxy finish. 19"W x 9"D x 1.75"H, 10 lbs.
- **Certification:** ETL Listed in US/Canada (UL60065)
- **Country of Origin:** Made in U.S.A. with global components

A&E SPECIFICATIONS:

The rack shall include an ETL listed rackmount power panel with advanced surge protection and over/under voltage protection, Lowell model ACSPR-1509-VTE. The panel shall have a power rating of 120VAC, 60Hz, 15A, 1800W. It shall have nine (9) 5-15R NEMA outlets, which shall include two duplex and five single. Activation shall be via a lighted rocker switch, which shall control five (5) of the outlets. The other outlets shall be unswitched (always on). The unit shall feature advanced three stage surge protection to protect against power surges up to 72,000A. In

addition, the panel shall include over/under voltage protection which shall automatically turn power to outlets off when AC line voltage exceeds 140V or drops below 100V. It shall include an auto reset to restore power to outlets when line voltage within tolerance is detected. Multiple LEDs shall display system status. Termination shall be via a nine ft. cord with NEMA 5-15P plug. The steel chassis with black powder epoxy finish shall measure 19"W x 9"D x 1.75"H (1U). The panel shall be made in the USA with global components.

ACSPR Series (Power Distribution Panels with Advanced Surge Protection)

This spec

Model No.	Power Rating	Front Outlets	Rear Outlets	Panel Switch	Total Outlets Controlled by Switch	Time Delay	Advanced Surge Suppression	Over/Under Voltage Protection	Input from Remote Switch	Input from External Trigger	Input from Alarm System	Output to Remote Control	Power Input	Country of Origin
ACSPR-1509	15A	1 (15A)	8 (15A)	rocker	5	---	TCR	---	---	---	---	---	9' cord	USA
ACSPR-1509-VTE	15A	1 (15A)	8 (15A)	rocker	5	---	TCR	VTE	---	---	---	---	9' cord	USA
ACSPR-2009	20A	1 (15A)	8 (15A/20A)	rocker	5	---	TCR	---	---	---	---	---	9' cord	USA
ACSPR-2009-VTE	20A	1 (15A)	8 (15A/20A)	rocker	5	---	TCR	VTE	---	---	---	---	9' cord	USA
ACSPR-SEQ4-1509	15A	1 (15A)	8 (15A)	rocker	6	SEQ	TCR	---	yes	---	yes	---	9' cord	USA
ACSPR-SEQ4-1509K	15A	1 (15A)	8 (15A)	key	6	SEQ	TCR	---	yes	---	yes	---	9' cord	USA
ACSPR-SEQ6-2009	20A	1 (15A)	8 (15A)	rocker	6	SEQ	TCR	---	yes	yes	yes	yes	9' cord	USA
ACSPR-RPC1-1509	15A	1 (15A)	8 (15A)	rocker	6	---	TCR	VTE	yes	yes	yes	---	9' cord	USA
ACSPR-RPC1-1509K	15A	1 (15A)	8 (15A)	key	6	---	TCR	VTE	yes	yes	yes	---	9' cord	USA
ACSPR-RPC1-2009	20A	1 (15A)	8 (15A/20A)	rocker	6	---	TCR	VTE	yes	yes	yes	---	9' cord	USA

SEQ = Panel includes sequencing to activate/deactivate switched outlets with a time delay between steps (adjustable).

TCR = Panel includes triple clamping redundancy (three stage surge protection).

VTE = Panel includes voltage tolerance envelope (over/under voltage protection) for automatic shutdown when voltage outside parameters is detected. Includes auto restart.

Input from Remote Switch = Panel can be controlled by an external switch, typically placed in a remote location (order RPS Series switch separately).

Input from External Trigger = Panel can be controlled by external trigger voltage (separate control system by others, not included).

Input from Alarm System = Panel can accept control override from an alarm system (alarm by others, not included).

Output to Remote Control = Panel can activate/deactivate remote equipment (order RPC Series remote power controls separately).

Power Input = Power cord is attached (not removable).

Note: For power distribution panels without Advanced Surge Protection, see Lowell's ACR Series. See individual product spec sheets for more information.

