



SEQ1216i

SEQUENCER, SURGE ELIMINATOR & POWER CONDITIONER

- *Advanced Series Mode*® Surge Elimination
- Power sequencing
- Remote Control Capability
- *Impedance Tolerant*® EMI/RFI Filtering
- *COUVS*® - Catastrophic Over/Under-Voltage Shutdown

The SEQ1216i provides guaranteed surge elimination, power conditioning and power sequencing for environments with complex mains distribution systems or system critical boot-up sequences. The SEQ1216i is an ideal power platform product for use in mains power distribution systems and can be interfaced with master control systems and other SurgeX products. Our proven, robust technologies and unmatched level of certification make SurgeX essential for Pro AV, IT, Medical, Government, Military and all mission critical applications.

The SEQ1216i is 16-amp load-capable and has 10 industrial grade earthed IEC mains receptacles, including four sequenced banks plus 2 always on receptacles. A rear panel warning light will indicate incorrect polarity of the mains supply. Integrators can specify bank-to-bank delay times of 2, 5, 10, 15 and 20 seconds. The turn on sequence can be initiated either by the front-panel

operation switch or the rear-panel Phoenix connector by using an applied voltage (5-30vdc) or contact closure switch. The Phoenix connector can also be used to cascade multiple units or provide status to a management system.

The unit features both common mode and normal mode Impedance Tolerant® EMI/RFI filtering and COUVS® - Catastrophic Over/Under Voltage Shutdown for a complete power conditioning solution.

SurgeX Advanced Series Mode® technology is superior to conventional MOV circuitry or MOV-Hybrid designs and is completely non-sacrificial. Our zero let-through technology provides the most reliable protection available. It stops all surges up to 6,000 volts (unlimited surge current) without producing harmful side effects such as earth contamination or common-mode disturbances.



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SPECIFICATIONS

Load Rating: 16 Amps at 230 Volts, 50Hz / 60Hz
Power Requirement (no load): 15 Watts
Number Of Switched Banks: 4 (2 receptacles each bank)
Number Of Always On Receptacles: 2
Surge Let-through Voltage (6000 Volt surge): 0 Volts
Safety Certification: IEC/EN 61643-1
Performance Rating: Grade A, Class 1, Mode 1
EMI/RFI Filter, Normal Mode (50 Ohm load): 40 dB @ 100 KHz, 50dB @ 300 KHz, 50 dB @ 3 MHz, 50 dB @ 30 MHz
EMI/RFI Filter, Common Mode (50 Ohm load): 18dB @ 300 KHz, 30 dB @ 1 MHz, 50 dB @ 5 MHz, 50 dB @ 20 MHz
Maximum Applied Surge Voltage: 6000 Volts *
Maximum Applied Surge Current:
 Unlimited (due to current limiting) *
Maximum Applied Surge Energy:
 Unlimited (due to current limiting) *
Endurance (C62.41-1991 category B3 pulses):
 1 KV > 500,000; 3 KV > 10,000; 6 KV > 1000
Undervoltage Shutdown: 180 Volts (Auto resetting)
Overvoltage Shutdown: 280 Volts (Auto resetting)
Remote Turn-on Applied Voltage Range: 5 to 30 volts DC
Remote Turn-on Current Draw:
 Contact Closure: 1.0 mA
 5 V DC Applied Voltage: 0.1 mA
 12 V DC Applied Voltage: 0.5 mA
 24 V DC Applied Voltage: 2.0 mA
Auxiliary Relay Contact Rating: 30 Volts at 1 Amp
LED Output: 12 Volts DC, 10mA (Resistor included)
Delay Time Per Bank: 2, 5, 10, 15, 20 seconds (switchable)
Dimensions: 4.5cm H x 48.3cm W x 26.7cm D [Single Rack]
 1.75" H x 19"W x 10.5" D
Weight: 5.9Kg (13 lbs)
Temperature Range: 5C to 35C
Humidity Range: 5% to 95% R.H. Non-condensing

* 1.2 x 50 microsecond industry standard combination wave surge as per IEEE C62.41

TECHNICAL DESCRIPTION

The SEQ1216i shall be a one rack-space unit in a magnetic shielding enclosure. It shall operate from 230 volts AC 50Hz / 60Hz and have a 240cm (2.5m) power cord. There shall be 10 earthed IEC outlets on the back panel, with 4 sequenced banks of 2 receptacles (each bank) and 2 always on. The SEQ1216i shall have remote control capability with a visual indicator. Overall dimensions shall be 4.5cm H x 48.3cm W x 26.7cm D (1.75" H x 19" W x 10.5" D). Weight shall be 5.9 kg (13 lbs).

The SEQ1216i shall have a load rating of 16 amps at 230 volts and feature a self test circuit with visual indicator, and provide EMI/RFI filtering and catastrophic over/under voltage shutdown. There shall be a rear panel polarity warning indicator. It shall meet Grade A, Class 1, Mode 1 guidelines for powerline surge suppressors and withstand at least 1000 occurrences of surge pulse voltages up to 6000 volts. The SEQ1216i shall be safety certified to IEC/EN 61643-1.

FEATURES

- 4 sequenced banks with 2 receptacles per bank
- 2, 5, 10, 15 and 20 second delay times with front panel adjustment
- Magnetic shielding steel enclosure
- 240cm (2.5m) power cord
- 10 earthed IEC outlets on rear panel (8 sequenced and 2 always on)
- Remote control compatible
- Master/slave operation
- *Advanced Series Mode®* surge elimination
- *Impedance Tolerant®* EMI/RFI filtering
- *COUVS®* catastrophic over/under voltage shutdown
- Thermal circuit breaker overload protection
- Self-test circuit with visual indicator
- Polarity indicator
- 10-year warranty
- **Engineered in the U.S.A.**

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