

Expert Power Protector 1020-6 / 1020-7

Made in USA



Permanent Surge Technology

Expert Power Protector 1020 allows for a **reliable protection** from noise, spikes and surges. The proven surge technology ensures trouble-free operation of business critical IT and AV installations.

GUDE's surge products protect connected consumers from worst case surges without degradation or failure. Its **permanent surge technology** has been certified for performance, endurance and safety. Expert Power Protector 1020 was subjected to 1,000 worst case surges of 6,000 Volts/3,000 Amps in 30 second intervals without resulting in degradation or failure. This equates to 10 years of worst case surges.

The technology of Expert Power Protector 1020 effectively senses and suppresses surges on 120 V power lines. Also in the range of 85 V to 175 V, the device leads to **reliable protection of connected appliances**. This is especially beneficial when the voltage is variable and unpredictable or when standby generators are in use.

The surge protector also provides the benefit of conditioning the power line by **removing EMI and RFI disturbances** which can disrupt data signals and cause electronic equipment to malfunction. These disturbances can also degrade the electronic components in the equipment, shortening its life expectancy.

Expert Power Control 1020-6 with NEMA 5-15



Power-on light Always-on outlets



Expert Power Control 1020-7 with NEMA 5-20

Features

- 2 outlets NEMA 5-15 or 5-20 (always-on)
- Repeatedly suppresses worst case surges
- No metal oxide varistors
- Filter operates independent of ground line - can be used in ungrounded outlets
- Non-sacrificial: does not wear out or degrade
- Made in USA
- 10 year warranty
- X10 compatible: not blocking signals in power installations

Technical details

- Voltage rating: 120 V, single phase
- Input: EPP 1020-6: NEMA 5-15P, 15A
EPP 1020-7: NEMA 5-20P, 20A
- Receptacles: UL components - 10,000 insertion rating
- Operating voltage range: 85-175 VAC
- Maximum continuous operating voltage (MCOV) = 175 VAC
- Filter Technology: Spectrum WVR (Wide Voltage Range)
- Certifications: ETL & cETL certified to UL 1283 7th Edition, CSA 22.2 No. 8 (Control #3162119)
- Operating mode: Mode 1 applications, L-N
- Operating temperature range: 0-40 °C / 32-104 °F
- Limiters: Inductor surge current limiter, auto-tracking dual polarity voltage filters. Parameters optimized for switch-mode power supply protection

- Supplemental filtering onset: 172 V nominal, 2 V above peak line voltage (auto-tracking-WVR)
- Max. surge voltage let-through*: 130 V above peak line voltage @ 6,000 V, 3,000 A for ANSI C62.41 category B3/C1 combination wave surge
- Max. applied pulse voltage: 6,000 V (1.2 x 50 µs- ANSI C62.41 combination wave)
- Joule rating: Not applicable to this filter technology: no MOVs to wear out.
- Endurance rating: 1,000 worst-case surges: ANSI C62.41, category B3/C1 pulses (6,000 V, 3,000 A); >10,000 surges at 4,000 V, > 100,000 surges at 2,000 V
- Filter slew rate: 5,000 V/µs disturbance reduced to 35 V/µs within AC power wave envelope, 10V/µs outside the power wave envelope
- EMI-RFI filter response: Bi-directional, wave tracking: with 50 Ohm generator and load: 3 dB @ 5kHz, 26 dB @ 100 kHz; 38 dB @ 300 kHz
- X10 carrier current compatible: Enhances powerline carrier signal operation
- Dimensions: 3 x 8.5 x 4 in (HxWxD)
- Enclosure: Magnetic shielding steel, black powder coat finish
- Weight: EPP 1020-6: 5.5 lbs, EPP 1020-7: 6.5 lbs

* Note: Surge voltage let-through is the surge voltage that exceeds the powerline peak voltage

Order no.	Product	Features	Power supply	Max. current
1020-6	Expert Power Protection 1020-6	Surge Protection, power conditioning, two powered NEMA 5-15 outlets	120 V	15 A
1020-7	Expert Power Protection 1020-7	Surge Protection, power conditioning, two powered NEMA 5-20 outlets	120 V	20 A



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