

MODULAR SURGE PROTECTION DEVICE

PV PLUS SERIES

AC Surge Protection

PowerVantage (PV Plus) is a per mode modular surge suppression unit with all modes of protection listed to UL 1449 3rd Edition and designed with robust surge capacity for long life. PV Plus is engineered for easy installation and serviceability to eliminate downtime and protect your critical equipment.



PV Plus Series

FEATURES

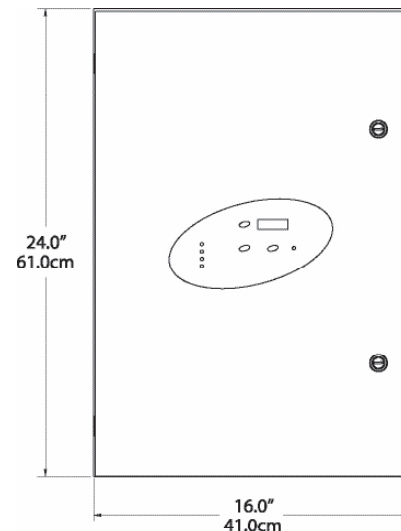
- **Thermally Protected MOV** - allows maximum surge capacity, repetitive capability, and performance while maintaining safety requirements
- **All Mode Protection** - L-N, L-G, N-G & L-L
- **Linear Sharing** - reduces stress to extend product life
- **Internal Protection Indicator Lights of Modules** - redundant monitoring to identify damaged modules for easy servicing
- **Modular Per Mode** - serviceable modules per mode
- **Surge Counter** - counts transients the unit suppresses
- **Indication Lights** - shows loss of power and external protection
- **Dry Contacts** - Form C contacts for remote monitoring (NO & NC)
- **Alarm with Disable Switch** - audible indication
- **Warranty** - 10 years

STANDARDS

- UL 1449 3rd Ed. Listed
- UL 1283
- NEC Article 100/285
- IEEE

OPTIONS

- Internal disconnect switch for easy servicing
- Spare modules



SPECIFICATIONS

| PV Plus | PV 200 | PV 400 | PV 600 |
|---------------------------------------|--|--|--|
| Performance | | | |
| Connection | Parallel | Parallel | Parallel |
| Operating Voltage Range | ± 15% | ± 15% | ± 15% |
| Nominal Operating Voltage | 120 - 480 Vac | 120 - 480 Vac | 120 - 480 Vac |
| Operating Frequency | 47 - 63 Hz | 47 - 63 Hz | 47 - 63 Hz |
| Noise Attenuation | EMI/RFI, Sine Wave Tracking | EMI/RFI, Sine Wave Tracking | EMI/RFI, Sine Wave Tracking |
| Surge Capacity per Mode | 100 kA | 200 kA | 300 kA |
| Surge Capacity per Phase | 200 kA | 400 kA | 600 kA |
| Nominal Discharge Current Rating (In) | 20 kA | 20 kA | 20 kA |
| IEEE Location | C-High, B-Medium | C-High, B-Medium | C-High, B-Medium |
| UL Location | Type 1 or Type 2 | Type 1 or Type 2 | Type 1 or Type 2 |
| Fault Rating (SCCR) | 100 kAIC | 100 kAIC | 100 kAIC |
| Response Time | <1 ns | <1 ns | <1 ns |
| Protection Provided | L-N, L-G, N-G, L-L (Split Phase, Wye); L-G, L-L (Delta) | L-N, L-G, N-G, L-L (Split Phase, Wye); L-G, L-L (Delta) | L-N, L-G, N-G, L-L (Split Phase, Wye); L-G, L-L (Delta) |
| Certifications | UL 1449 3rd Edition Listed (E315238) | UL 1449 3rd Edition Listed (E315238) | UL 1449 3rd Edition Listed (E315238) |
| Mechanical | | | |
| Dimensions - H x W x D | 24.0" x 16.0" x 8.9" 61.0 cm x 41.0 cm x 22.4 cm | 24.0" x 16.0" x 8.9" 61.0 cm x 41.0 cm x 22.4 cm | 24.0" x 16.0" x 8.9" 61.0 cm x 41.0 cm x 22.4 cm |
| Weight (Max) lb, kg | 60 lbs / 27 kg | 60 lbs / 27 kg | 60 lbs / 27 kg |
| Lug Range | #14 - I/O | #14 - I/O | #14 - I/O |
| Lead Length | ≤ 5' (recommended) | ≤ 5' (recommended) | ≤ 5' (recommended) |
| Wire Gauge | #6 without disconnect or #4 with disconnect (recommended) | #6 without disconnect or #4 with disconnect (recommended) | #6 without disconnect or #4 with disconnect (recommended) |
| Breaker Connection | 60 A (recommended) | 60 A (recommended) | 60 A (recommended) |
| Environmental | | | |
| Humidity | 5 to 95% non-condensing | 5 to 95% non-condensing | 5 to 95% non-condensing |
| Operating Temperature | -40° C to + 65° C | -40° C to + 65° C | -40° C to + 65° C |
| Operating Altitude (feet) | Up to 12,000 | Up to 12,000 | Up to 12,000 |
| Enclosure Type | NEMA 3R | NEMA 3R | NEMA 3R |