Surge Protection Portfolio

Protect modern HVAC equipment and expensive electronic components in single-family homes, offices, commercial buildings and more.



Despite the following statistics, surge protection is one of the most overlooked safeguards....



- An estimated \$250 to \$500 million dollars per year is lost from property damage caused by severe weather, lightning, electrostatic discharge, switching of inductive or capacitive loads and internal/external switching transients.*
- Approximately 60 to 80% of all transient voltage surges are generated from inside a home or building; Only 35% of transient voltage surges stem from an outside source.**
- Analysts estimate U.S. consumers spend billions annually on "smart" home appliances,

- refrigerators with touchscreens, computerized washers, dryers, ranges and HVAC equipment, yet let them operate largely unprotected from surge.
- 84% of homeowners feel power strips provide adequate protection for computers, HD TVs and other electronic components. Only 20% of these same homeowners understand that these strips degrade over time, rendering them inadequate for surge protection.***
- * National Lightning Detection Network
- ** NEMA Surge Protection Institute
- *** Gibbs and Soell Surge Study in 2014





FAILURE SHOULD NOT BE AN OPTION.

Protect your customers' investments in sophisticated equipment with Intermatic's portfolio of surge protective devices.

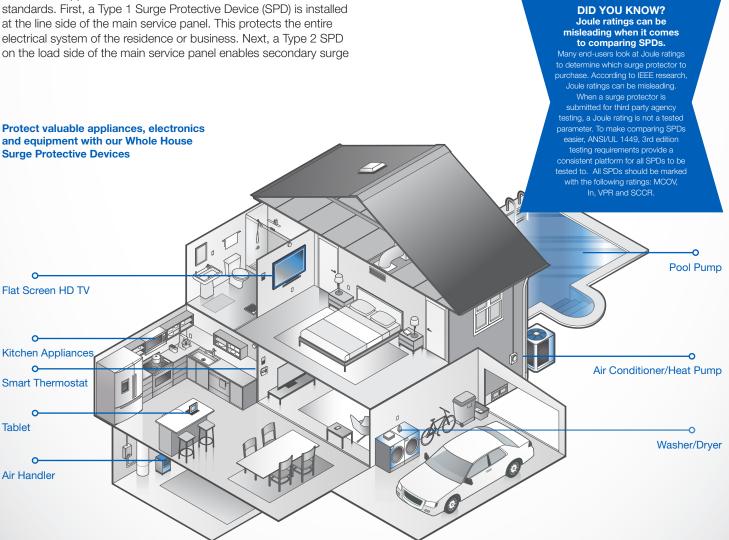
Any system in a residence or commercial property that is powered by electricity is vulnerable to fluctuations in power. This means HVAC equipment, electronic components, office equipment and appliances all require protection from voltage spikes.

While severe weather, lightning and fluctuations in utility power, such as grid switching, are often considered the main culprits of a power disturbance, the overwhelming cause is actually a transient voltage surge that stems from within the home or building. Triggers of transient surges can range from the stopping and starting of motors, appliances and electronics, to even the simple flipping of a light switch. Keep electrical devices and equipment operating unaffected from voltage spikes or transient voltage surges with layered surge protection.

We've been safeguarding electrical equipment for over 20 years. Intermatic's approach is based off of ANSI/UL1449, 3rd Edition at the line side of the main service panel. This protects the entire electrical system of the residence or business. Next, a Type 2 SPD protection from internal, or transient, power surge sources. Then, sensitive electronics and devices are protected from internal surges with point-of-use SPDs.

Our products are designed with trusted, state-of-the-art TPMOV® (Thermally Protected Metal Oxide Varistor) surge protection technology that eliminates the potentially hazardous failure modes associated with standard MOV surge protection technology. They are backed with industry-leading warranties on both the surge protective device and the connected equipment being protected.

This makes our portfolio a great solution for all types of facilities: industrial manufacturing, commercial offices, healthcare facilities, institutional buildings, government buildings and campuses, hospitality, retail spaces and single or multifamily residences.



HVAC

Let our power protection duo safeguard systems from undervoltages, surge and system short cycling.



Fast installation. Unmatched protection.

Today's HVAC equipment is more technologically advanced and expensive; yet, it remains susceptible to damage from poor power quality, such as voltage surges and brownouts. Damage from these types of events are typically not covered in a manufacturer's or extended warranty. Our powerful tag team of the Compressor Defender™ and AG3000 fill the out-of-warranty coverage gap by protecting expensive air conditioning system components and furnaces. Covered components include:

- Compressors and circuit boards in residential and light commercial applications
- Central AC and heat pump condensing unit applications
- · High-efficiency furnaces, boilers and ductless mini-splits

The Compressor Defender™ and AG3000 feature:

- State-of-the-art TPMOV® surge protection technology
- Fast, simple, 10-minute or less installation onto disconnects
- Minimize nuisance callbacks to save time and money
- Industry-leading 3-year product warranty and 3-year, \$7,500 connected equipment warranty on the compressor and all electronic parts
- Cost-effective solutions, great upsells for seasonal service promotions
- Meet ANSI/UL Listed 1449, 4th Edition standards
- Together this duo offers complete system surge and brownout protection and peace-of-mind for your customers

Compressor Defender™

Brownout, Surge and Short Cycle Protection — CD1-024R

Rapid Off/On cycling can be extremely hard on an A/C unit's compressor, causing it to restart against high pressures. This strain can overheat and damage the compressor motor windings. Designed specifically for central air conditioners and heat pumps, the Compressor Defender™ is the only all-in-one undervoltage and surge power protection device on the HVAC market for central A/C and heat pump condensing units and their associated motors, controls and components – both electronic and mechanical. It installs easily inside the condensing unit or externally on the outdoor A/C disconnect.

- Instantaneous 5-line cycle* undervoltage response time
- Power Disruption Response Time: 3-line cycles*
- 120/208-240 VAC universal input
- 24 VAC/VDC, 2 A control thermostat output
- · Surge and brownout protection with 3-minute short cycle feature
- Two LED indicators provide real time status
- Undervoltage protection complies with AHRI standard 110-2016 Range B Protective Device
- Type 3 UV-resistant plastic enclosure
- Type 2 Surge Protective Device

HVAC Surge Protection — AG3000

Your customers might be shocked to learn that replacement parts in their HVAC system may be covered under warranty, however, labor is not. When a surge occurs, circuit boards, variable speed motors and switches in HVAC systems are all susceptible to costly repairs.

The AG3000 HVAC Surge Protective Device connects to the furnace/ air handler disconnect to protect new high-efficiency furnaces, hydronic heating systems, air handlers, central air conditioners, wall-hung boilers, heat pumps and ductless mini-splits from surges.

- Three modes of protection
- Type 1 or Type 2 Surge Protective Device
- Green LED indicator provides status of protection
- Type 4X watertight and UV-resistant plastic enclosure

Residential/Commercial

Rely on the industry's best ratings for whole house surge protection.



Homeowners may already have a surge strip for a new computer or flat screen TV. But what about the thousands of dollars they've invested in the kitchen, laundry, garage door opener, smart thermostats, home automation controls, heating and ventilation equipment and specialty lighting? As the electronics we rely on for home and business become "smarter," the components become more complicated to repair.

Protect a home or business owner's investments with surge protective devices that are backed with both product and connected equipment warranties. Intermatic's Type 1 and 2 SPD's offer the industry's best ratings and state-of-the-art surge protection technology.

Smart Guard® with IModule™

Intermatic's Smart Guard whole house surge protector has received multiple awards, including Category Winner of EC&M's prestigious Product of the Year in 2015. IModules™ with LED lights enable quick and easy indication when protection has been compromised. No need to hard-wire in a new SPD; replacing an affected IModule™ is as easy as changing a printer cartridge; simply remove the old one and snap in the new!

Smart Guard installs onto the main electrical panel and covers a homeowner's big investment equipment, from appliances and computers, to HVAC equipment and TV's.

- State-of-the-art TPMOV® surge protection technology
- Six modes of protection
- Module Power Switch enables convenient disconnection of power at the SPD (IG2240-IMSK only)
- \bullet Includes three IModules $^{\rm @}$ with LED power and protection status lights
- Available in Type 1 metal enclosure or Type 3R plastic or metal enclosure
- 10-year product warranty
- \$25,000 or \$50,000 connected equipment warranty for 10 years on appliances and electronics

Hard Wired Surge Protective Devices — IG Series

The IG Series is designed for both indoor and outdoor installations and is ideal for residential and light commercial applications.

- State-of-the-art TPMOV® surge protection technology
- Three or six modes of surge protection depending on model
- Green LED indicator provides status of protection
- Type 3R rainproof enclosure for indoor or outdoor applications in plastic or metal
- 3, 5 or 10-year product warranties
- \$7,500, \$10,000 or \$25,000 connected equipment warranties on appliances and electronics

Telephone Line or Coax Cable Protection — IG1300 Series

From all-in-one AC/phone/cable (up to multiple lines) to separate telephone (expandable up to 12) and coax modules (expandable up to 6), we've got it covered! The IG1300 Series safeguards telephone lines and coax cables as well as AC power.

- Designed for installations after service entrances in Type 2 applications
- · Six modes of protection for AC SPD
- Type 3R plastic rainproof enclosure for indoor/outdoor installations
- UL 497A for telephone protection
- UL 497B for coax protection
- 5-year product warranty
- \$10,000 connected equipment warranty for 5 years on appliances and electronics

Commercial/Industrial

Minimize financial losses and downtime.



Hard-Wired Surge Protective Devices — AG Series

Keeping a facility operating smoothly is key to controlling costs. Properly protecting schools, offices, manufacturing, commercial office spaces, healthcare facilities, retail spaces and institutional buildings from electrical surges helps avoid costly emergency repair calls and downtime while ensuring occupant comfort and productive environments. Our 3-phase commercial surge protection is up to the task!

The AG Series is designed for indoor or outdoor applications in single and 3-phase service voltages. Outdoor applications include 3-phase rooftop units, irrigation equipment, farm equipment, pumps, lighting fixtures, traffic signaling devices, HVAC controls and motors.

- State-of-the-art TPMOV® surge protection technology
- Type 1 or Type 2 SPD
- Three or six modes of protection
- Green LED provides status of protection indicator
- Type 4X watertight, plastic enclosure for outdoor installations
- UV-resistant polycarbonate housing
- 1-year product warranty

Office-Grade Surge Strips

When protecting your equipment is crucial, these surge strips create an important layer of defense from voltage fluctuations for sensitive electronic loads like computers, fax machines, printers and more.

- Available with EMI/RFI Noise Filtration
- Three modes of protection
- LED indicator provides status of protection
- 5-year product warranty
- \$5,000, \$10,000 or \$25,000 connected equipment warranties on appliances and electronics



Surge Selection Guide















	*	Separate specimen and an annual separate	M.	A.M.	A.A.		
SPD Ratings	IG2240-IMSK	IG2240-PK	IG2280-0M/IM	IG1200RC3	IG1240RC3	IG3240RC3	IG1300-2T/4T (AC, Phone, Coax)
SPD Type	1 or 2	2	2	1 or 2	1 or 2	1 or 2	2
Service Voltage	120/240 VAC 50/60 Hz	120/240 VAC 50/60 Hz	120/240 VAC 50/60 Hz	120/240 VAC 50/60 Hz	120/240 VAC 50/60 Hz	120/240 VAC 50/60 Hz	120/240 VAC 50/60 Hz
Phase	Single	Single	Single	Single	Single	Single	Single
Modes of Protection	6	6	6	3	6	6	6
Surge Protection Technology	TPMOV®	TPMOV®	TPMOV®	TPMOV®	TPMOV®	TPMOV®	TPMOV® (AC Only)
Nominal Discharge Current (kA)	10	10	20	20	20	20	20
Short Circuit Current Rating (kA)	10	10	100	50	50	50	50
Maximum Con- tinuous Operating Voltage (V)	L-N, N-G 150 L-L, L-G 300	L-N, L-G 150 L-L, L-G 300	L-N, N-G 150 L-L, L-G 300	L-N, L-G 150 L-L 300	L-N, N-G 150 L-L, L-G 300	L-N, N-G 150 L-L, L-G 300	L-N, N-G 150 L-L, L-G 300
Voltage Protection Rating (V)	L-L, L-G 1500 L-N 800 N-G 700	L-L 1200 L-G 1500 L-N 800 N-G 700	L-L 1200 L-G 1500 L-N 800 N-G 700	L-L, 1200 L-N, L-G 700	L-L, L-G 1200 L-N, N-G 700	L-L, L-G 1200 L-N, N-G 700	L-L, L-G 1200 L-N, N-G 700
Agency Listing	UL Listed	UL Listed	UL Listed	CSA Certified	CSA Certified	CSA Certified	CSA Certified
Product Warranty	10-year	10-year	10-year	3-year	5-year	10-year	5-year
Connected Equipment Warranty	10-year/\$50,000	10-year/\$25,000	10-year/\$25,000	3-year/\$7,500	5-year/\$10,000	10-year/\$25,000	5-year/\$10,000



Warranty

Lighting Controls | Surge Protection | Weatherproof | Photocontrols | Timers | Defrost/Refrigeration Controls

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