

# TOTAL PROTECTION – TOTAL SAVINGS

## What our Clients Say:

**High Tech Manufacturing** – “Our site projects the return on investment (ROI) was less than 2 months after completing the installation of the 3 level surge suppression system. This meant that we saved millions of dollars in losses.”

**Major Hospital System** – “In the past, we had installed a few different manufacturers’ surge suppression units, and although there was some reduction in lightning damage, there seemed to be no effect on the daily nuisance problems experienced by our sensitive (and very expensive) electronic equipment in the hospital...the results of installing the TPS units include reduced downtime, clearer ultrasound images, no lightning damage whatsoever....Our payback period is less than one year.”

**Municipal/Government** – “The result was lower maintenance costs. We feel this technology will allow us to achieve significant short and long term savings, increase reliability and longevity of all our electrical & electronic equipment throughout the county.”

**Retail** – “We had more electrical problems at that store than any other. Not only was it a cost savings on maintenance, but the down time and loss of sales were virtually eliminated.”

**Residential** - “...all her neighbors TV’s & computers were affected by a large surge. My client’s very expensive computers were not affected, the only house on the street! I have vowed never to leave a homeowner without the option of adding surge protection.” Finan Electric

## Total Protection Solutions



## The Green & Sustainable TPS Story:

**SUCCESSFUL COMPANIES** have placed a priority on **GREEN AND SUSTAINABLE** goals by understanding the mandate for corporate environmental and system efficiency improvements in their facilities.

The amazing financial rewards are the “low hanging fruit” by installing our Total Protection System. Supported by an **Unconditional 30 Year Free Replacement Warranty**, Total Protection Solutions becomes a very low initial investment relative to a **short payback** and a **30 year plus life cycle savings**.

Many clients have documented paybacks of less than two years through reduced operating costs while protecting against catastrophic failure and downtime. The return on investment (ROI) is many times the initial cost. Isn't this the exact goal of all the companies and institutions who manage and operate facilities?

**TOTAL PROTECTION FOR LIFE®**

## Reduce Your Bottom Line With:

- ✓ Reduced Operating Costs
- ✓ Increased Productivity
- ✓ Increased System Reliability
- ✓ Reduced Failure & Downtime
- ✓ System Wide Total Protection
- ✓ Low Cost to Benefit Ratio
- ✓ Significant Long Term Savings
- ✓ Extended Equipment Life
- ✓ 30 Year Warranty

Our goal is to provide real solutions through a proactive approach, focusing on return-on-investment and maximizing life-cycle savings. We do not focus on first cost, low bid or generic spec market applications. Those markets demand products that are designed to capture “lowest bid” using inexpensive components to meet the minimum standard. Quality and performance are sacrificed, leaving the customer unaware that they are not well protected. Our products are designed for the very best performance, reliability and longevity available. Our management team provides over 22 years of hands on field experience. The TPS Enhanced Transient Filter gives TPS products a much quicker return on investment than competitor units. Our customer relationships are held in high regard and we strive to provide excellent customer service and support.

Technical Support

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**International Innovative Systems** has been providing reliable Surge Suppression solutions since 1984, merging over 75 years of field experience with the quality of Total Protection Solutions; a proven line of innovative Surge Suppression Devices (SPDs).

# Application

LET I.I.S. SELECT THE RIGHT PRODUCT FOR YOU

You name the application and we will show you a proven solution that will save your facility costly down time, unnecessary repairs, a fast return on investment and life cycle savings that will pay dividends for years to come.

## Protect the following:

### Industry

- Drives - Failing or locking up
- PLCs - Failed boards, reboots and corrupted data
- C.N.C. machines
- Robotic welders

### Hospitals

- Imaging equipment - M.R.I., X-Ray, CAT Scan,
- Automatic transfer switch - Protect against damage and failure
- Elevators - Reduce costly service contracts and down time

### Commercial

- T-5 / T-8 Electronic ballasted lighting – Premature failure of ballasts and poor lighting quality
- H.V.A.C.
- Alarm and telephone equipment
- Eliminate computer and P.O.S. lock ups and failures
- L.E.D. Lighting

### Residential

- A.C. panel protection for electrical household equip.
- Coaxial and telephone protection
- Up-scale homes

### Other

- Waste water
- U.V. Lighting - Premature ballast failure
- Mining and forestry
- Schools, apartments and condos



UL 1449 3RD Edition, Type 1 and Type 2.  
Ask for details.

# Specification

KNOW WHAT YOU ARE GETTING

Total Protection Solutions is proud to boast the best performance characteristics in the industry and we make that very clear on every data sheet and technical specification we produce.

We are happy to clarify the data that is critical to your application and help you navigate through complex and often confusing information.

When buying an SPD, always obtain the IEEE Measured Limited Voltage (Voltage Let Through) data, in order to see exactly what voltage remnants your equipment is being exposed to during transients of various sizes.

## ANSI/IEEE C62.41-1991 Measured Limiting Voltage

### B3/C1 Impulse (6kV, 3kA)

Voltage (Voltage Code)	L-N	L-G	L-L	N-G
120/208 (3Y208)	642V	690V	1010V	620V
347/600 (3Y600)	1250V	1340V	2300V	1230V
600 delta (600NN)		1960V	2260V	

### C3 Impulse (20kV, 10kA)

Voltage (Voltage Code)	L-N	L-G	L-L	N-G
120/208 (3Y208)	1040V	1420V	1300V	1240V
347/600 (3Y600)	1910V	1960V	2910V	1880V
600 delta (600NN)			2760V	2950V

## Enhanced Transient Filter

The IEEE Measured Limited Voltage also applies to SPDs offering a form of filtering referred to as “Sine Wave Tracking”.

The TPS Enhanced Transient Filter has the best LET-THROUGH Voltages in the industry.

## A1 Ring Wave (2kV, 67A) @ 180 degrees

Voltage (Voltage Code)	L-N	L-G	N-G
120 volt AC/DC	28V	28V	24V
250 volt AC/DC	28V	32V	28V