



Mission Critical Systems

Surge Protection for the Utility Industry

Supply Reliability and Power Quality

Surge protection requirements for the utility industry are intricate and evolving, each requiring a variety of protection levels based on unique applications. From advanced metering infrastructure (AMI) to Smart Grid delivery systems, the requirement for service reliability and power quality is paramount. As leaders in RF, AC, DC, and data line surge protection, PolyPhaser and Transtector are well versed in the specific challenges, requirements and standards necessary for utility operability.

Application	Network Component	Value
Telecom	Backhaul Tower Shelter GPS	Protection of Communication networks allows utilities to meet operational requirements through reliable delivery of services
Smart Metering	AMI (advanced metering infrastructure) AMR (automatic meter reading) data collection points	Enables communication between the meter and utility for improved energy efficiency
SCADA	Sensors RTU (remote telemetry unit) PLC (programmable logic controller) Backhaul	Infrastructure processes provide large-scale or multi-site remote supervision and control
DA Distribution Automation	Communications, reclosers, feeder switches, capacitor bank controllers	Improves reliability and efficiency with real-time monitoring and intelligent control
EMP Filtering EMI Solutions GMD/GIC Applications	Substations, telecommunications, GPS command and control/SCADA	Hardens command and control lines against E1, E2 threats

RF



IS B50



TSX



AL-LSXM



DGXZ

AC



APEX



LS Plus



I2R IEP

Reliable Smart Grid Delivery Systems

Global utilities incorporate surge protection and grounding solutions to ensure communication reliability, power quality and data collection. AMI, SCADA and DA operators trust and depend upon the reliable surge protection solutions PolyPhaser and Transtector Systems provide for Smart Grid delivery.

- Superior protection products engineered to protect data collection and communications applications within global utility networks
- Engineering teams integrate international electrical standards and appropriate suppression technology into both custom and commercial off-the-shelf product designs
- Technical service teams well versed in protection requirements essential for remote monitoring, smart grid operation, power generation and AMI communications
- Dedicated regional staff to assist in beta test evaluations, site surveys, test reports and logistics management

Superior Protection. Patented Technology. Guaranteed Performance.

Surge Protection Required	Recommended Surge Protection
RF, AC, Data	SX Series (TSX), ISB50 Series, APEX Series, LS Plus, I2R IEP Series, DRDC Series, ALPU Series, CPX Series, GX Series
RF, AC, Data	SX Series (TSX), ISB50 Series, I2R IEP, ALPU Series, TSJ Series, CPX Series, DPR Series
RF, AC, Data	SX Series (TSX), ISB50 Series, APEX Series, LS Plus Series, I2R IEP Series, DRDC Series, ALPU Series, CPX Series, TSJ Series, DPR Series
RF, AC, Data	SX Series (TSX), ISB50 Series, I2R IEP, ALPU Series, TSJ Series, CPX Series, DPR Series
EMP, GMD, GIC	Custom capabilities, E3PM

DC



DRDC



I2R IEP



DC Defender

Data



CPX



ALPU



TSJ



DPR



FSP



IX

Committed to Service

Meeting our customers' requirements is paramount to our effort in creating highly satisfied customers. We are the only surge protection supplier that offers a full line of professional services, including:

- **Consulting and Site Audits:** More than 30 years of expertise and professional experience in power and grounding consulting, site audits and educational courses
- **Custom-Engineered Solutions:** Experts in transient technology, EMP and standards required for UL, CE, CSA and RoHS
- **Tailored Product Expedite (TPE) Program:** Designed to provide application-specific surge protection solutions through modification or enhancement of a current product
- **Customer Service:** Dedicated inside sales and customer service teams trained in the unique surge protection requirements found within the grid

