

EATON

Powerware

Powerware® PXL

Product Focus



Introduction

Today's business environment calls for 24x7 uptime and reliability. Customers require solutions to ensure that their investments in equipment and processes are protected from the damaging effects of voltage transient and electrical noise. Surge protection devices are needed to protect sensitive telecommunications, HVAC, and other electrical and electronic equipment. The Powerware PXL series of surge protective devices provides enhanced feature capability for mission-critical applications.

Intelligent Surge Suppression Device with Advanced Monitoring Options

The Powerware PXL offers improved quality and reliability including enhanced monitoring capabilities and a new patent-pending technology — our Thermo-Dynamic Fusing™ system — which provides a safer surge protective device in a smaller package.

Our premium display option offers features not even found in our customers' highest functioning displays. In addition to typical features such as a surge counter, push to test button and phase operating status LEDs, our premium display incorporates a mini power quality meter with surge, sag, swell and outage counters and a voltmeter — all on a compact, 2 x 16 LCD. Even our standard display is loaded with features including an audible alarm, form C contact and phase operating status LEDs.

Surge Protection from the Inside Out

The Powerware PXL is the first surge protective device to utilize our patent-pending Thermo-Dynamic Fusing system to provide both safety and performance. This technology, which uses fuse traces (FT) on each individual metal oxide varistor (MOV), can sustain high surge currents and provide the necessary interruption of high fault currents (kAIC). In addition, a thermal fuse spring (TFS) utilizing a special low temperature solder, is designed to disconnect the MOV before it exceeds a safe temperature during low-level fault current events. Low-level fault currents are most common during temporary over-voltage conditions (TOV) and are the main cause of surge protective device failure (SPD). SPD products that promote fuses with excessive surge current ratings do not provide the proper system coordination. They sacrifice low-level fault protection and do not disconnect during low current fault events. This can result in catastrophic failure (fire) and eventual tripping of the upstream breaker or fuse. With the PXL, you get both safety and system coordination.

Let-through voltage is a key performance measurement for SPDs. The most significant factor affecting let-through voltage is lead length. The PXL's reduced size allows the device to be installed as close as possible to the equipment being protected. By minimizing

