

# Architectural Specification

## **Power Conditioner Model # - PCI-500NA**

The power conditioner shall be a self contained, standalone unit in a metallic enclosure with a load rating of 5.0 amps @ 120 volts. The front panel of the power conditioner will provide a green LED indicator for "power on" status and a red flashing LED indicator for "no safety ground" condition. The power conditioner shall contain a low impedance isolation transformer, a noise filter and a high energy surge diverter. The noise filter and surge diverter shall be installed on the transformer secondary in order to provide bi-directional protection against noise and transients. The transformer secondary shall have its output neutral bonded to the safety grounding conductor. The transformer shall provide minimum load surge current capabilities of 175 amps for 1/2 cycle, 84 amps for 1second and 24 amps for 10 seconds. The power conditioner shall contribute less than 1% total harmonic distortion (THD) and shall be no less than 94% efficient. It shall operate at 120 volts AC, 60 Hz. and be equipped with a six foot, grounded, three wire power cord equipped with a NEMA plug. The power conditioner must withstand ANSI/IEEE C62.41 Category A and B. With the power conditioner under power, and a Category A pulse applied to the input either normal mode or common mode, the noise output voltage of the power conditioner shall not exceed 10 volts normal mode or .5 volts (1/2 of one volt) common mode in all four quadrants (CM-NM, NM-NM, CM-CM, NM-CM) The power conditioner shall be UL listed and be warranted against defects in materials and workmanship for no less than 5 years.



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