Lucid Load Application

an Energy Tech Company.

Elevator Protection for Schindler (Hawaii)

Schindler

Hawaii's electrical grid is prone to power-quality fluctuations, including voltage spikes, brownouts, and outages that can disrupt elevator operation. Further, the local electric utility allows voltage to fluctuate by as much as 15%, while a fluctuation of approximately 10% could permanently damage elevator control boards, variable-frequency drives, or controller fuses.

Lucid Load technology was identified by Schindler Hawaii as the **ideal layer of power conditioning and protection for elevators and other sensitive electronic equipment.** Lucid Load delivered positive results in buildings throughout Hawaii, including reduced power expenses.

By improving the quality of power supplied to elevator systems, Lucid Load helped reduce callbacks associated with power-related faults, lowered energy usage, extended equipment life, and protection for building owner's investments in new, existing, or modernized elevator systems.

> "Our world is filled with increasingly sensitive devices...that contain precise circuitry and micro-processors. They are **easily affected by power quality disturbances, such as surges, sags, or interruptions**...[and] by external factors such as weather."
>
> Hawaii Electric Company

The Lucid Load Impact

With Lucid Load Protection	Without Lucid Load Protection
✓ Conditioned incoming power	✗ Exposed to power fluctuations
✓ Reduced power-related faults	✗ Greater risk of callbacks
✓ Protected control electronics	✗ Risk of component damage
✓ Reduced energy use potential	✗ Potentially higher energy costs
✓ Extended parts life potential	✗ Increased repair costs
✓ Improved system reliability	✗ Possible service interruptions

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