

View as web page

View as pdf page

Sheltered Aisle

35kV Switchgear



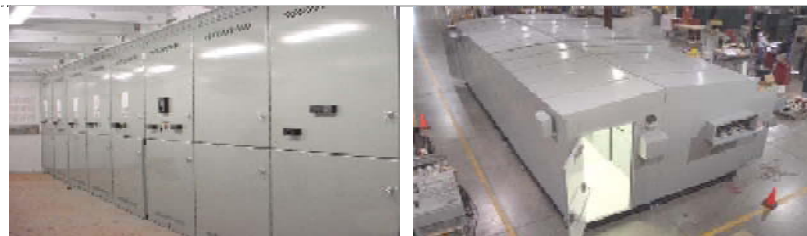
Data center comprising 13 megawatts of critical load and 44,000 square feet of raised-floor space.

Walk-in Sheltered Aisle

Shallbetter Inc. designed and constructed the 35kV outdoor metal-clad switchgear line-up along with the walk-in, sheltered aisle for Power Distribution Systems.

The 35kV metal-clad switchgear is directly connected to the power company utility incoming service and provides distribution electrical power to a Data Center having in excess of 13mW of computer loads.

The Walk-in Sheltered Aisle is a fully constructed outdoor enclosure that supports either metal-enclosed or metal-clad switchgear and MCC. They can be lined up to incorporate MV and LV controls or paralleling systems for co-gen or renewable energy. The Walk-in Sheltered Aisle provides an innovative new approach to the traditional 'open air' or 'lattice structure' substation and an economical alternative to traditional metal-clad switchgear. By putting equipment inside, the Walk-in Sheltered Aisle offers increased reliability for power distribution and turns outages from weather or animal intruders into a thing of the past.



Walk-in Sheltered Aisle is a fully constructed outdoor enclosure

Sheltered-Aisle/ Switchgear Features:

The walk-in Sheltered Aisle switchgear have many features provided for the comfort of the operator and overall performance.

These features include:

NEMA 3R construction w/11-gauge galvaneal steel.

Heavy duty 6" channel base for added support.

Base undercoating for added protection.

Interior / exterior paint finish exceeds

ANSI-C57.12.28 paint specifications.

120/240V CPT & panel board for aisle power.

Interior lighting.

Ventilation louvers and fans for cooling.

Dominion Virginia Power utility termination section.

Dominion Virginia Power metering section.

Siemens 35kV, 1200A vacuum circuit breakers.

Basler protective relaying for each feeder and the main. Square D

Digital AC metering of main bus parameters.