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Product Portfolio

Data Center / Mission Critical



UL 891 Low Voltage Switchboards

Power Your Data Center with Precision and Reliability



Electrical Specifications

Input: 208 - 800VAC, 3P3W 3P4W 800 - 6000A
Ampacity: 800 - 1600A
Interrupt Rating: 65 / 100kAIC @ 480/600/800VAC
Configurations: Single Main, Dual Main, Multiple Main, Main-tie-Main, Up to 6000A
Feeder ACB Sz: 800 - 5000A
Feeder MCCB Sz: 125 - 1200A
Feeder Type: Electronic Trip or Thermal Mag (TM MCCB Only)
Surge Protection: 200kA
Connection: Direct bus, Cable bus, Cable tray, Cable
Transfer: Manual/Automatic Transfer

General Specifications

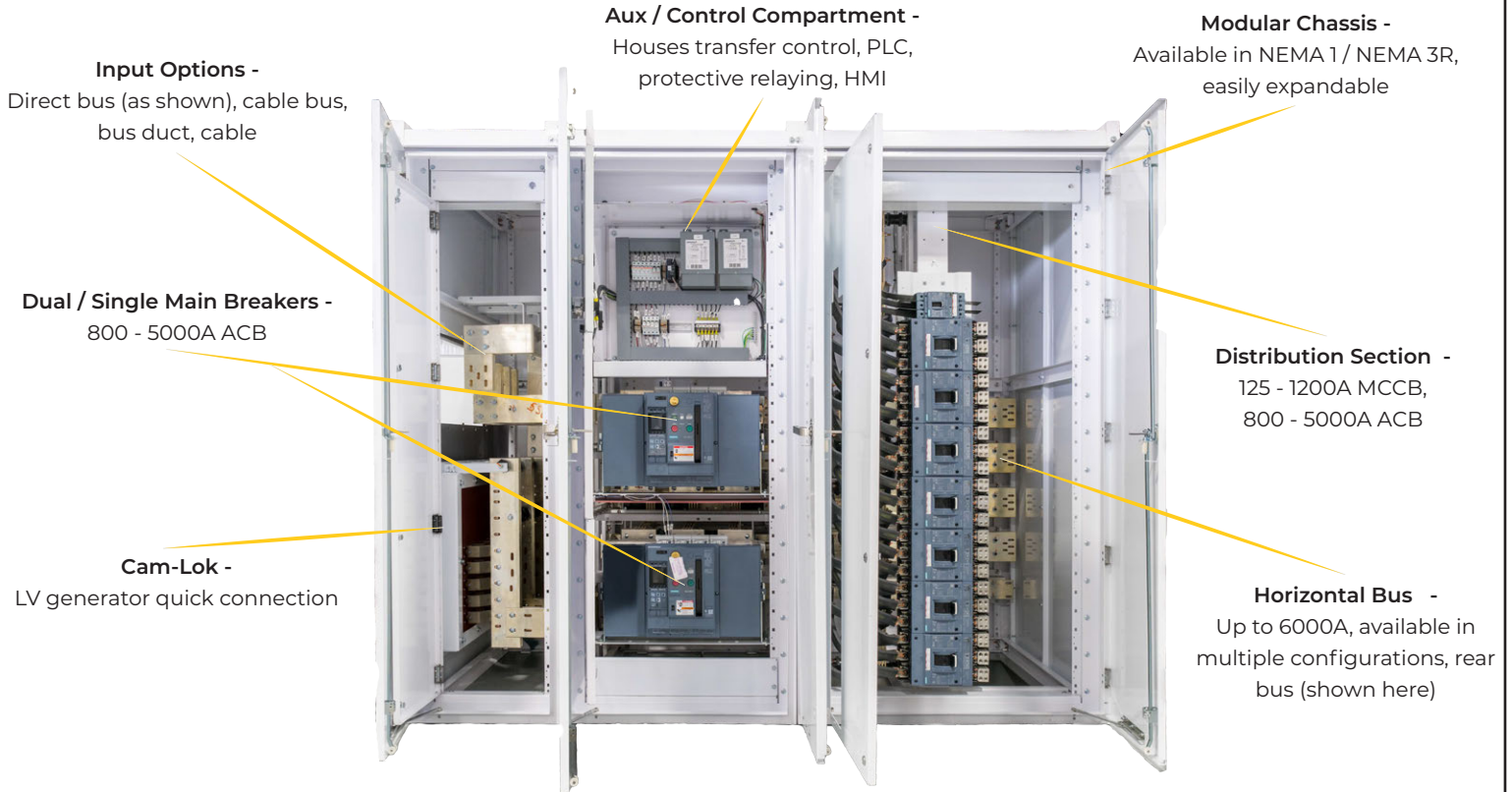
Safety: UL 891
Environmental: UL / NEMA 1 & 3R non-walk in
Accessibility: Front / rear or front only
Incoming / Outgoing Cable: Top or bottom (cable, cable bus, wire tray, bus duct)
Horizontal Bus: Option for top, bottom, middle or rear
Cooling: Convection or forced Air
Operating Temp: 0 - 50C
Storage Temp: -20C - 60C non condensing
Paint: Glossy White, any color optional
Dimensions: 90"x (48", 40", 36") please add 6" depth & 2" height for N3R

Optional Features

Transfer Controls: ATC or PLC
Thermal Monitoring: Continuous via Modbus TCP or IR window
Logic: PLC
HMI: 10" touchscreen (circuit breaker monitoring & control)
Communications: Modbus TCP / IP, Modbus RTU, BacNet
Incoming / Outgoing Metering: Power quality metering separate or built into ACB
Diagnostics: Com-Ready MCCBs & ACBs available for full diagnostic communications



UL 891 Low Voltage Switchboards



The EPEC Difference

Personalized service - Direct collaboration with EPEC's engineering and project management teams ensures every solution is aligned with your needs

Industry Focused Solutions - Designs and features optimized for the unique demands of our target industries, ensuring compliance, reliability, and performance.

Exceptional Technical Support - Access to knowledgeable in-house engineers and technicians from design through commissioning.

Short Leadtime - Lean manufacturing processes & domestic production help accelerate delivery schedules for time-sensitive projects.

Comprehensive Warranty & Support - Strong warranty combined with lifetime technical assistance for peace of mind.



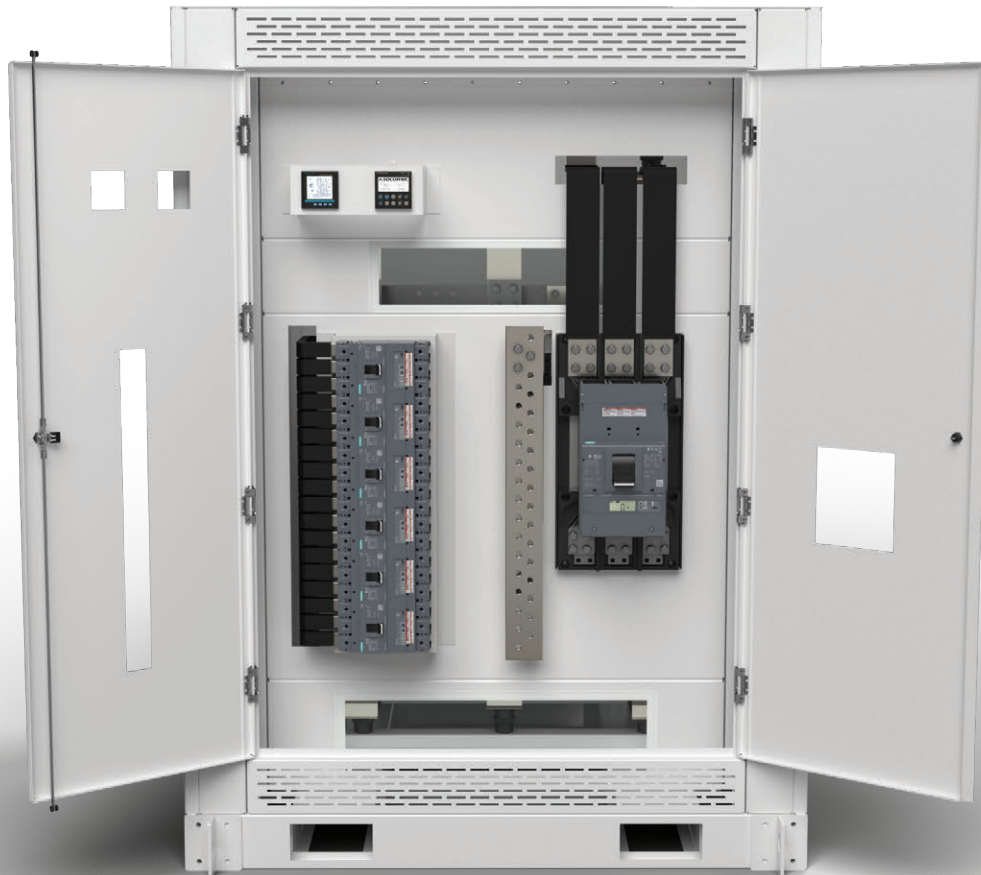
Superior Reliability

EPEC is a proven leader in the design and build of LV AC SWBD's in the demanding solar, energy storage, and EV charging industries. We understand that downtime is not an option for your facility. That's why our Modular SWBD is designed for maximum reliability. It's robust construction and advanced engineering ensure consistent performance and minimal maintenance.



Power Distribution Unit (PDU)

Power Your Data Center with Precision and Reliability



Electrical Specifications

kVA: Up to 1250kVA
Input: 3P, 4W+G
Input Voltage: Up to 600VAC
Output: 3P, 4W+G
Output Voltage: 480/277, 415/240, 208/120,
Multiple Outputs
Transformer Ratings: K1,K4,K9,K13
Transformer Efficiency: DOE2016 Compliant
Transformer Temp Rise: 150C, 135C, 115C
Neutral Rating: 100-200%

General Specifications

Safety: UL Listed
Enclosure: NEMA 1
Cooling: Convection, Air
Deadfront: Hinged
Ground: Single Point
Cable Input: Top or Bottom Entry
Operating Temp: 0 - 40C
Storage Temp: -20 - 60C.
Audible Noise: NEMA ST20
Seismic: Engineered Calc.
Dimensions: 90"H x 66"W x 60"D

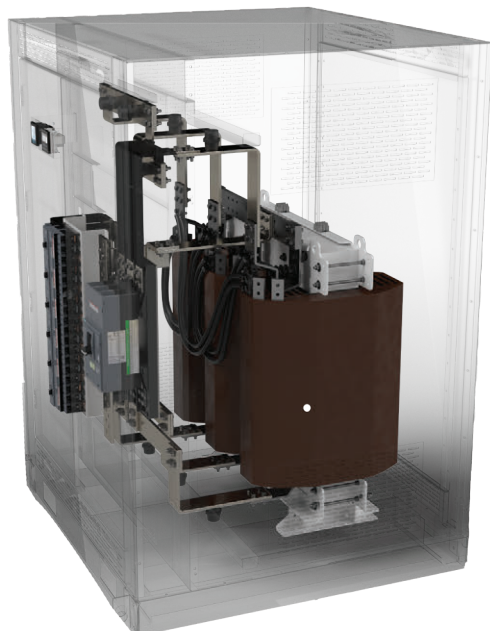
Distribution Output

Feeders: Up to 12 150/250AF, Up to 8
400/600AF, Up to 6 800/1000AF
Feeder Type: Electronic Trip
Mounting: Vertical
Metering Specs
Input Metering: Standard
Output Metering: Optional
Communications: Modbus TCP/BacNet
Accuracy: Revenue Grade



Power Distribution Unit (PDU)

EPEC, a leader in UL 891 switchboard equipment, is pleased to release our intelligent Power PDU panel for data center industry customers. These Power PDU panels feature the same thermal engineering / power density capabilities that have made us a proven leader in renewable power and feature our quick standard lead time. This product stands ready to support your high current data center / AI requirements.



Key Features

Customized Options - flexible configurations for enclosure types, bus materials, breaker layouts, metering packages, and connectivity options.

Advanced Monitoring Integration - Seamless integration with customer EPMS/BMS systems via Modbus, or BACnet for real-time performance tracking.

Optimized Cable Management - Designed for top or bottom entry with internal raceways and tie points to simplify cable routing.

Including EPEC Core Features - Electronic trip circuit breakers (LSI, LI), thermal engineered for compact power delivery, standard white paint for easy visibility, color touchscreen for local monitoring & control

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by EPEC Solutions, Inc.

Contact: info@epecsolutionsinc.com



Remote Power Panel (RPP)

Power Your Data Center with Precision and Reliability



Electrical Specifications

Input: 3P4W+G
Nominal Voltage Rating (60HZ): 208Y/120, 415Y/240, 480Y/277, 600Y/347
Ampacity: 200 - 1600A
SCCR: Up To 65kA@480V
Main Device: MLO or MCCB Single, Dual, Dual Source , Up To 800A
Neutral: 200%
Branch Ratings: 15 - 125A
Circuits: 42, 84, Up To 336
Surge Protection: 200kA

General Specifications

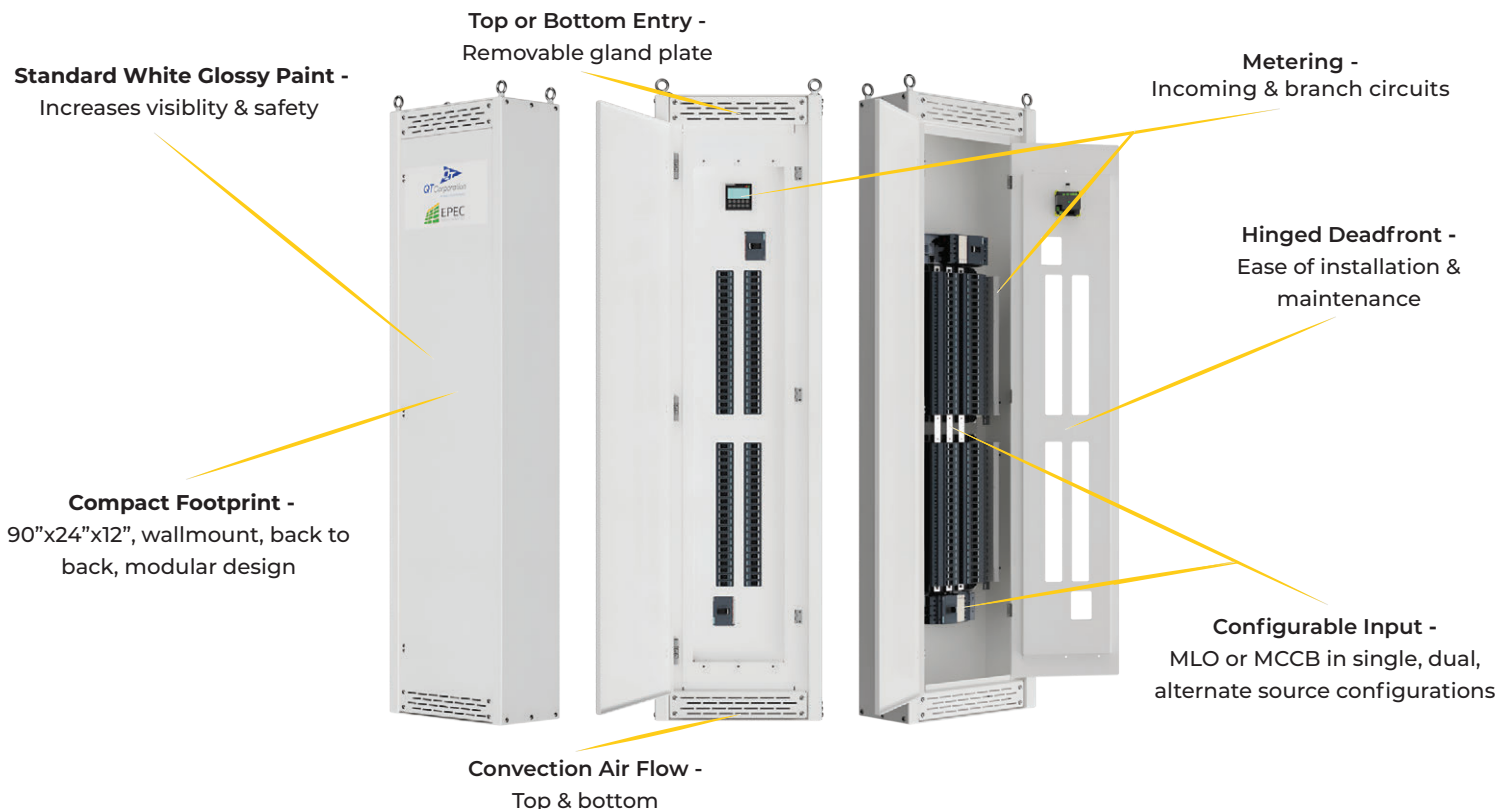
Safety: (cULus UL 891) IR window or continuous thermal monitoring (optional)
Enclosure: NEMA 1, NEMA 3R
Cooling: Convection Air
Deadfront: Hinged
Accessibility: Front
Configurations: Free standing, wallmounted, back to back
Cable Input: Top or bottom entry
Operating Temp: 0 - 40C
Storage Temp: -20C to 60C
Seismic: Engineered Calc.
Paint: Glossy White
Dimensions: 90"x24"x12"

Metering Specifications

Input Metering: Standard
Output Metering: Optional
Communications: Modbus TCP / IP, Modbus RTU, BacNet
Accuracy: Revenue Grade
Metering Parameters: Input & Output voltage; Output current; kVA kW, kWh, Frequency; power factor, load peak demand



Remote Power Panel (RPP)



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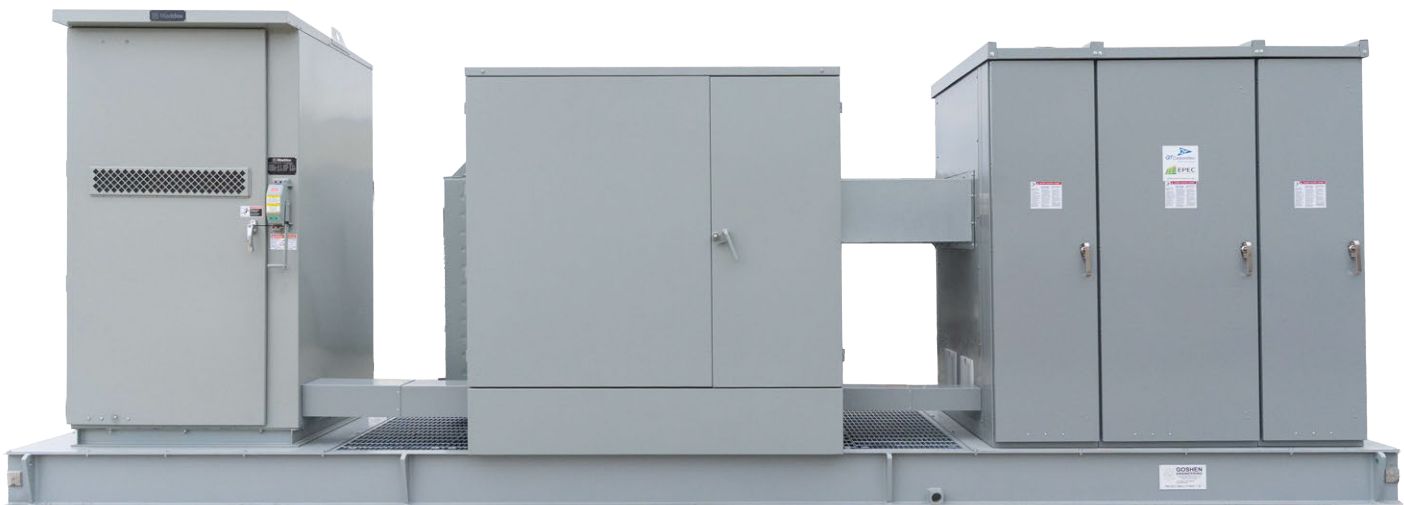
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Electrical Skidded Solutions

Power Your Data Center with Precision and Reliability



Key Characteristics

Modular & Integrated: Components like switchgear, UPS systems, transformers & controls are pre-integrated into a single, cohesive unit.

Pre-Engineered & Tested: Systems are designed, manufactured & tested in our controlled factory environment before delivery

Plug-and-Play: On-site installation involves connecting external cables, drastically simplifying the process and reducing installation time

Allows increased integration complexity: Instrumentation & control wiring performed & checked in a factory environment prior to shipment.

Benefits

Save Time: Faster installation & commissioning, leading to reduced project timelines & less plant downtime

Reduced Cost: Less on-site labor, materials, & construction work translates to significant cost savings.

Increased Safety: Factory assembly & testing minimize hazardous conditions and risks on the job site.

Improved Quality & Reliability: Rigorous testing & pre-engineering ensure high quality, performance, and a more reliable system

Specifications

Design: All of our skidded solutions are designed utilizing 3D CAD & finite element analysis. Reaction loads are calculated utilizing worst case wind & snow loads in the continental USA.

Environmental: Skidded solutions designed for indoor or outdoor requirements.

Finish: Steel skids are subject to a multi-stage cleaning & painting process, and utilize industrial automotive paint.

Options: Mini-skids, rail skids up to oil containment skids. Custom designed to each requirement.



Electrical Skidded Solutions

MV transformer -

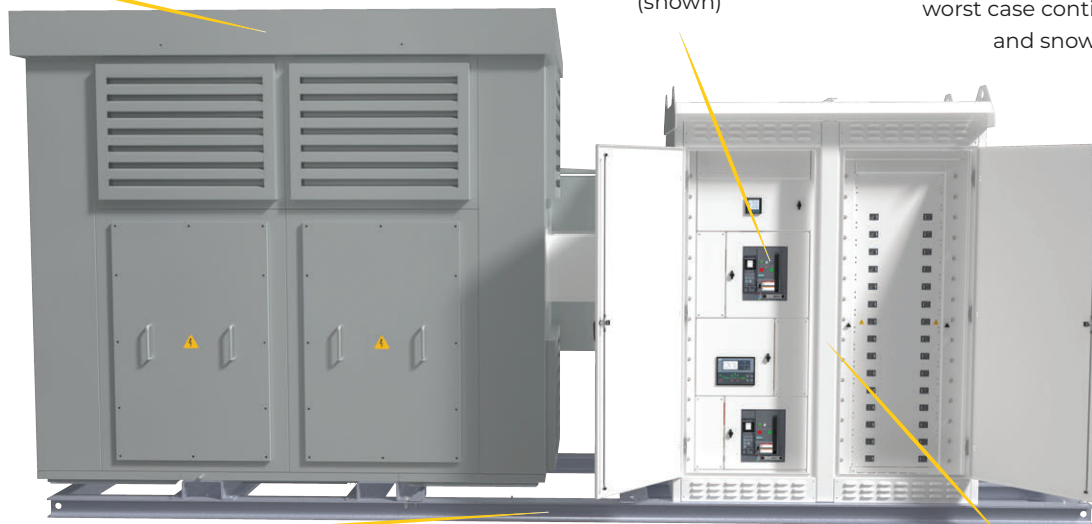
Dry type (shown), liquid filled (page 1) or dry pad options.

EPEC LV SWBD -

800 - 6000A, 208 - 800VAC Dual main 4000A with auto transfer controller and (16) feeders. (shown)

Design -

Finite element analysis performed for all skids, supplying reaction loads for worst case continental US wind and snow loading.



Base Options -

I-beam minimal (shown) galvanized or painted, top plate, or oil containment (page 1)

EPEC LV equipment -

UL 891 switchboards, RPP's, PDU's available for skid mounting.

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Line Reactors For BESS

Critical Power Applications



Low Voltage Line Reactor Specs

- Up to 800VAC, 3 Phase Dry Type Reactor
- With CT's and RTD
- Cu / AL Windings



Medium Voltage Line Reactor Specs

- Up to 35 kV System
- 15kVA Single Phase Dry Type Reactor
- Cu / AL Windings

Key Functions of Line Reactors in BESS /Data Center

- **Harmonic Mitigation:** Reduction of Total Harmonic Distortion (THD) back into the grid, ensuring compliance with power quality standards (e.g., IEEE 519)
- **Protection from Transients:** Guard sensitive semiconductor components (IGBTs, diodes) from voltage spikes and current surges
- **Inrush Current Limitation:** Limit the rate of change of current, mitigating stress during rapid charging or discharging (training) cycles
- **Voltage Stabilization:** Stabilize the DC bus, preventing nuisance trips caused by line voltage fluctuations

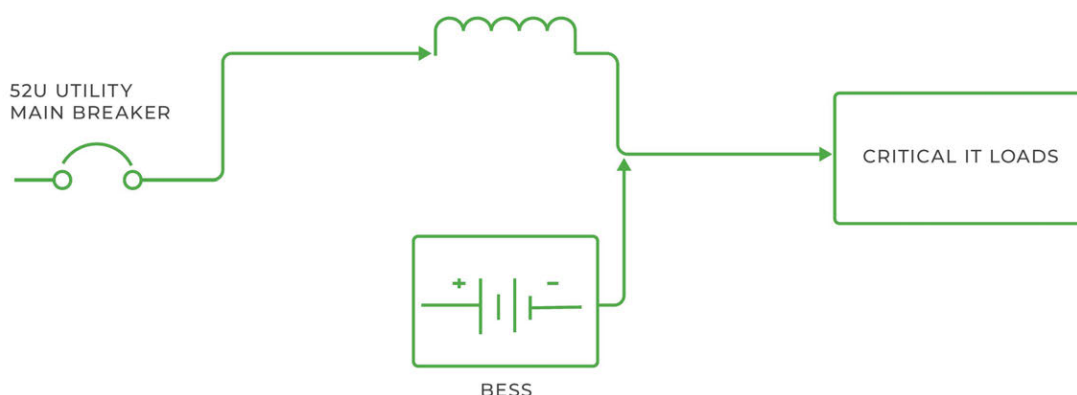
100%
Made
In USA

Quietest
reactors
on the market

Custom engineered
based on your
specifications

Can be customized
with CT's, PT's, and
temperature monitoring

Line Reactor





800VDC LV Switchboards

Customized Power Distribution for Data Centers



EPEC 800VDC
DISTRIBUTION SWBD

New Product

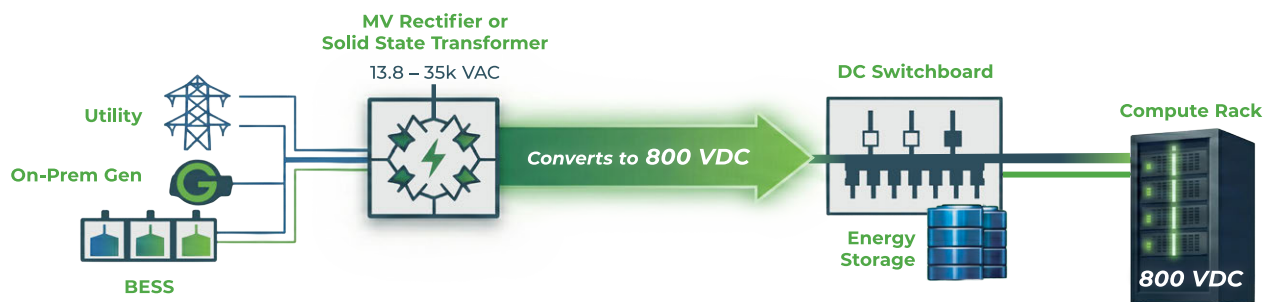
- 4000A, 800VDC LV switchboard
- Designed to support emerging 800VDC distribution architecture

We welcome the opportunity to collaborate in this exciting new 800VDC realm with your design team.

Key Features

- Up to (4) Solid State Feeder Breakers (600-1000A)
- 4000A DC Disconnect Main
- Designed for direct bus or cable input from rectifier / SST
- Optional designs for SWBD connected energy storage

800 VDC Distribution - MV to 800 VDC



Efficient Power Conversion for Modern Data Centers



EPEC
SOLUTIONS, INC.

Innovation for critical power.
Dependable solutions.
Real results.

CONTACT US

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