

GRID ENERGY ROUTER

Precision Control

Modern technology delivers precise control at the grid edge

Efficiency Gains

Enable Conservation Voltage Reduction with stability in challenging conditions

Integrate Renewables

Seamless integration of distributed generation and energy storage

**UP
TO 15%
EFFICIENCY GAIN
OR RESERVE**



- ✓ On-Demand Reserve
- ✓ Drastic Efficiency Gains
- ✓ Coupling Feeder Knowledge with Capability
- ✓ Readiness for DC Devices

The electrical distribution network is facing new challenges far beyond the original intended design. Today's power challenges include highly variable electrical loads and distributed points of generation. These factors create stress on traditional grid equipment. At GridBridge, our mission is to revitalize power delivery systems with technology to enable distributed resources and improve reliability, resilience and efficiency.

GridBridge offers utilities a new set of tools to partner with their customer base and create a power system that is both environmentally and financially green. This new approach is delivered with the GridBridge Energy Router.

The GridBridge Energy Router was developed through years of collaborative work with a diverse set of clients, including utilities. This multifunctional device is designed to improve electrical distribution efficiency and reliability at the grid edge, while simultaneously integrating distributed generation resources.

With the GridBridge Energy Router, utilities can pursue Conservation Voltage Reduction with confidence and seamlessly integrate renewable energy and energy storage devices; which enables peak shaving and other efficiency techniques.

For more information about GridBridge, visit www.grid-bridge.com

Operational Benefits

Double digit efficiency improvement from voltage management delivers quick return on investment

Manage peak buys and pursue Conservation Voltage Reduction with confidence

Create smaller, self-operating cells that offload demand on substation

Voltage, VAR and Frequency stabilization with simultaneous Power Factor Correction

Detailed Power Quality metering at the grid edge for precision insight and theft detection

Seamless integration of renewables and energy storage

Electrical

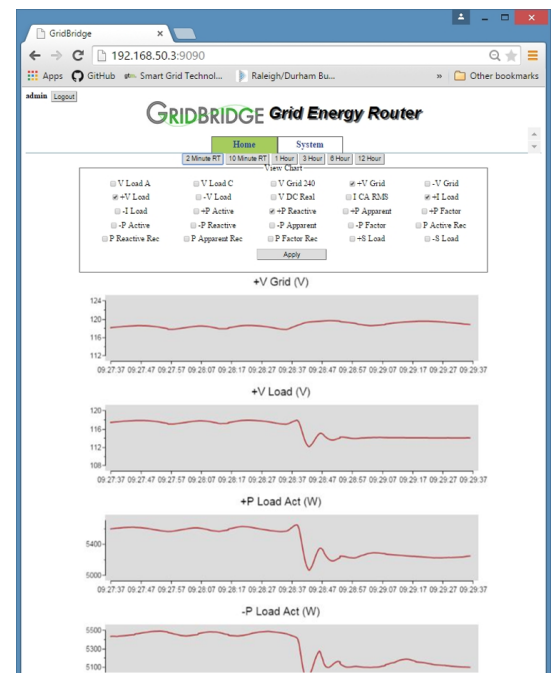
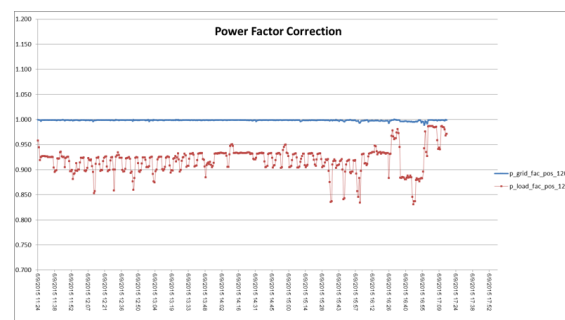
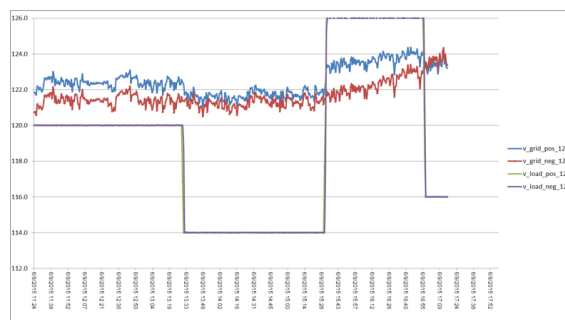
Nominal Input / Output Voltage	120/240VAC Split Phase
Rated Power	50kVA (240VAC @ 200A)
Operating Temperature Range	-40C to +65C
Efficiency	> 99% at or Near Full Load
VAR Compensation Range	Variable Up to +/- 5kVAR
Power Factor Correction	Independent Control on Each Leg
Output Voltage Regulation	Input +/- 10VAC (exceeds ANSI C 84.1 range)
Grounding	Optional Enclosure Ground for Pole Mount
Voltage Harmonic Distortion	< 3% (per IEEE 519)

Mechanical

Enclosure	NEMA 4X
Dimensions	16"W x 20"H x 24"D
Weight	Approx. 300 lbs.

Communication

Data Integrity	SSL and TLS Protocols
Management	Remotely Upgradeable Software
Remote Network Connection	Wireless Radio 2G (or greater)
Local Network Connection	802.11 a/b/g/n or Bluetooth Available
Interface	Graphic User Interface with Dashboard



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www.grid-bridge.com | sales@grid-bridge.com