

PRODUCT OVERVIEW

The BasicPower™ Unit (BPU™) employs a multifaceted approach to Power Quality coupled with the ability to reduce kWh consumption and kW demand by creating efficiencies within the electrical system in your facility and recycling distorted electrical energy back into fundamental power.

The BPU™ is a solid state device with no moving parts or microprocessor control. It achieves its power quality and energy savings through the instantaneous reaction of interwoven magnetic fields within a sophisticated and powerful electromagnetic reactor that compensates for anomalies within the electrical system and automatically adjust to distribute the proper amount of power to each operating load.

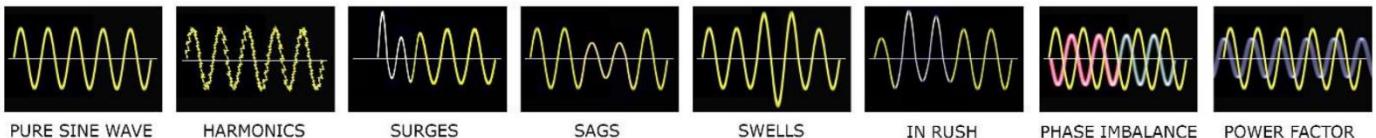
Innovative and Unique

The BPU™ is the only technology in the world that uses electromagnetics to monitor and control multiple power quality issues within a single unit. Unlike other single function power quality technologies, the BPU™ does not discard the distorted power you have purchased but cannot use. The BPU™ reactor optimizes your electricity by restructuring external and internal electrical distortions returning them to the fundamental sinusoidal wave thus creating useful, more efficient, power.

The BPU™ is NOT a power factor correction device and does not rely on building capacitance to correct power quality issues. The BPU™ works well with variable speed drives and with existing power quality equipment previously installed.

Power Quality Conditions Improved by the BPU™

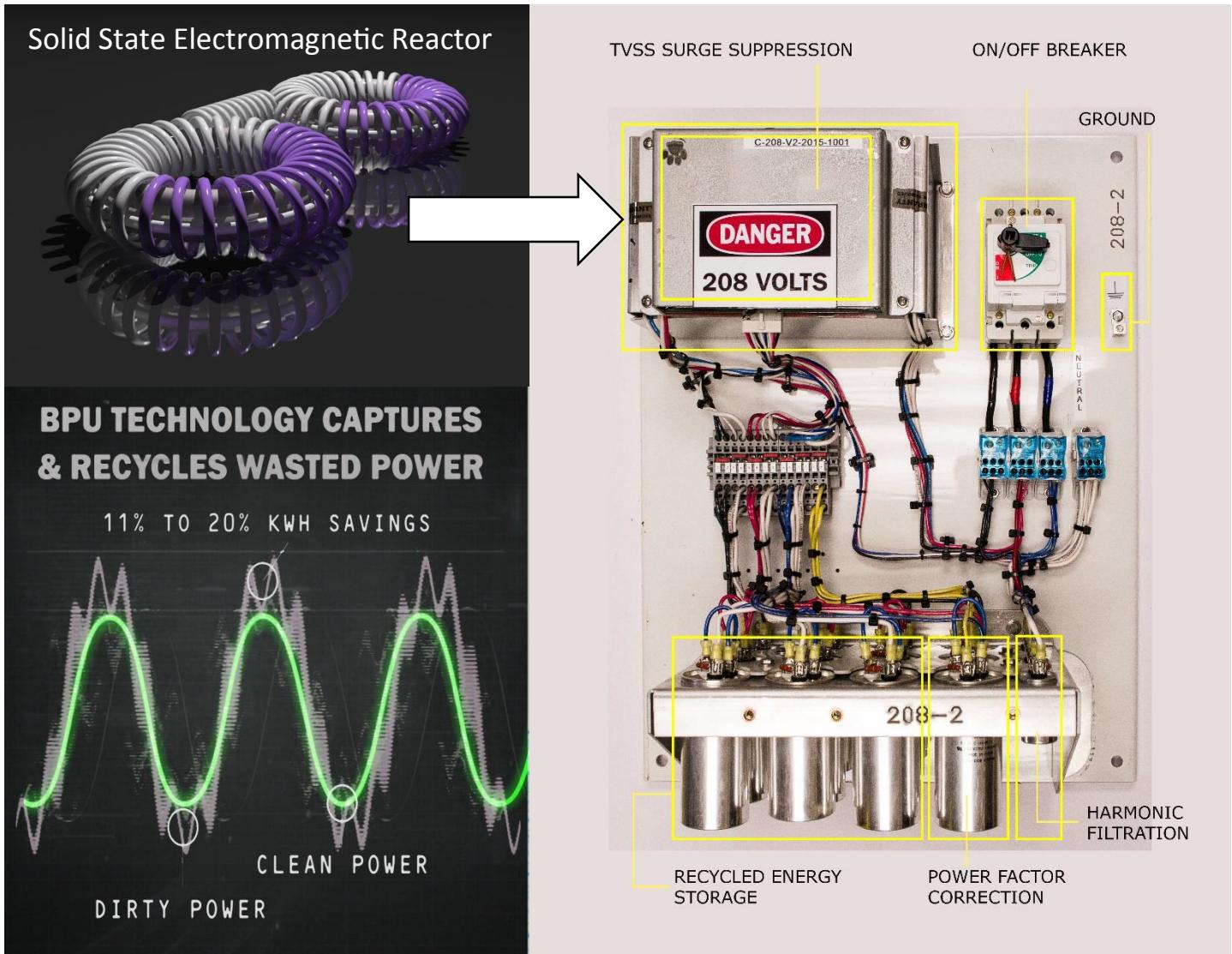
Harmonic Reduction	Adjusting the spectral content and current waveforms that are comprised of frequencies other than 60Hz
Surge Suppression	Reducing the effects of suddenly present high voltage disturbances like lightning that appear to be mixed in with the supply voltage or current.
Sag Mitigation	Compensating for changes in supply voltage that appear as reductions in the peak value of the supply voltage at various times and conditions.
Swell Mitigation	Compensating for changes in supply voltage that appear as expansions in the peak value of the supply voltage at various times and conditions.
In-Rush Current Limiting	Compensating in changes in site voltage and current magnitudes that appear as sharp rises in peak current values when large loads switch on.
Phase Balancing	Compensating for asymmetrical differences in power magnitudes that appear as differing site current draw values on individual supply phases.
Power Factor Correction	Compensating for changes in site voltage and current relationships that appear as angular offsets between voltage and current at various times.



Energy Savings achieved by the BPU™

The BPU™ absorbs power anomalies in electricity supplied to your facility by your utility company. It also captures and corrects anomalies created by the operation of electrical equipment within your facility. The BPU™ provides voltage optimization and energy efficiency so that you buy only the electricity you need and use all the electricity you buy.

The BPU™ removes harmonics created by the operation of switching transformers, variable speed drives, lighting ballasts and LED drivers and recycles them back into fundamental power that your equipment can use. It stores this recovered electricity and intercepts and significantly clips power demand spikes from electrical loads within your facility by supplying that equipment with the additional kW needed before the utility meter sees the increase in demand.



A Cost Effective and Proven Technology



Complies with
UL 508A
Industrial Panel Shop
E212591



The BPU™ creates kWh savings in excess of 11% in addition to seven power quality benefits. Basic Power manufactures 12 models of the BPU™ for 120v, 208v, 380v and 480v. Over 250 units are installed in North America, Europe and the Middle East. Third party power reports are available together with client testimonials.

Power quality and electricity consumption analysis (pre and post installation) for commercial and industrial installations in multiple market sectors are available upon request as well as accessory meters to monitor electricity consumption are available.