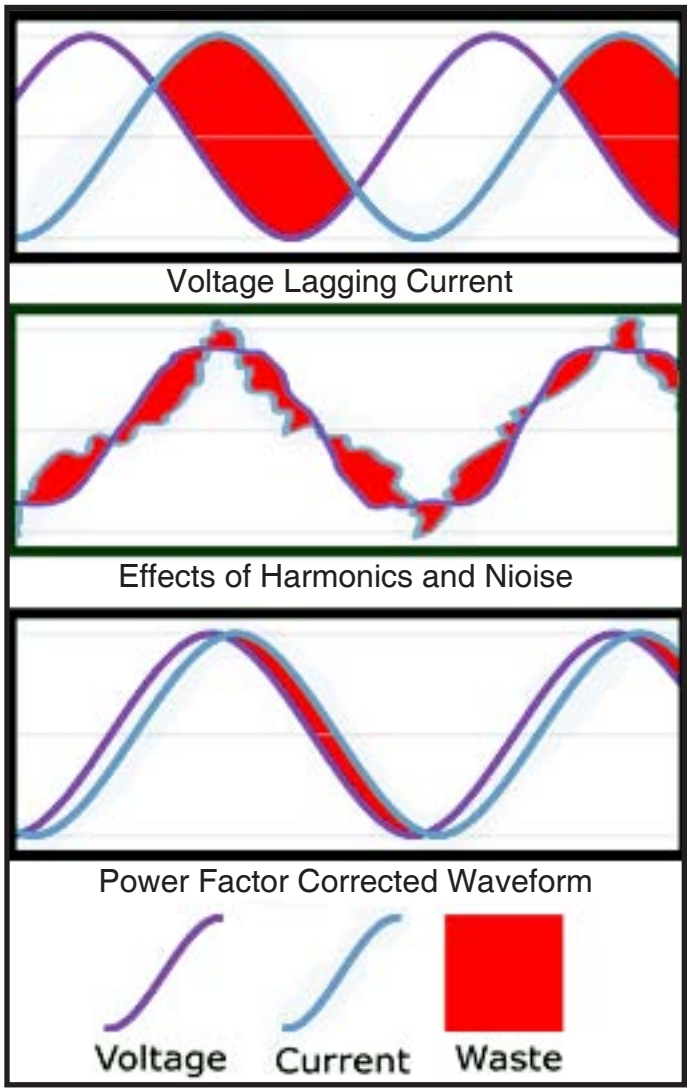
NEW!

ParaMode 5400 Series

Electronic Converter/Charger

With Power Factor Correction!



Power Factor is a rating of how effectively a device or system uses electrical power. This is normally expressed as a value from 0-1 and represents a percentage (0.5 = 50%). A low power factor represents a waste of energy. For example a device that consumes 1000 Watts of power with a power factor of 0.5 is wasting 500 Watts of power to operate. This can happen in several electrical situations, including RV switching power converter systems.

The main causes for poor power factor are:

- Voltage Lagging Current
- Harmonics and/or noise distorting the waveform

Power Factor Correction works to smooth the waveforms and make them more sinusodial, as well as working to align the voltage and current waveforms. These corrections in the waveform reduce wasted energy, which obviously can reduce operating costs. Other benefits of PFC technology include the ability to produce more output amperage while maintaining a lower input current. This can really aid RVs that are operated on 30Amp shore service, imagine an extra 10Amps of battery charging capability without the fear of tripping breakers from overloading your 120VAC input current. The smoothing and alignment of the waveforms also reduces stress on internal converter componentry which can lead to extended product life!

The image is a visual representation of how PFC works.

The 5400 Series of converters from Parallax Power Supply® have active Power Factor Correction. Additionally, the 5400 Series is part of the ParaMode™ familly of products which means it is easily upgradeable with exclusive add on devices like the patented TempAssure™ temperature compensation module and more!

PARALLAX® POWER SUPPLY

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