Secure your data center power supply with the PCS100 RPC. Solve power factor (leading and lagging), low-order harmonics, and imbalance problems to improve efficiency.

Uncorrected power factor? Don’t risk it!
Some server loads, particularly when lightly loaded can cause a leading power factor, which is a problem for standby generators. If the power factor is outside the generators specifications the performance is at risk and therefore risking the whole data center. The PCS100 RPC can control the power factor to a set point, ensuring correct operation regardless of the power supply (utility or generator). Additionally low order harmonics and current imbalance can be corrected to further improve equipment operating margins and the overall power quality.

Benefits
- Increased power supply security
- Lower loading in equipment
- Stable generator operation
- No need to oversize infrastructure to cope with the problems of reactive power and imbalance
- Saves money by eliminating reactive power penalties from the utility

PCS100 RPC Features
- Fast operation – inverter based technology
- Can correct leading or lagging power factor
- Modular design with advanced redundancy provides high reliability and short repair times

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The diagram shows half a typical data center system. Under normal operation the PCS100 RPC corrects the site power factor. This reduces the transformer loss and eliminates reactive power charges from the utility. In a power outage or sometimes during UPS testing the site will run from the generator. If the UPS is bypassed the generator will be exposed to the server load and UPS filter capacitors. This leads to a leading power factor which can cause the generator to lose control of its voltage. The PCS100 RPC corrects the power factor, which allows the generator to operate reliably within specification.