

# PCS100 Reactive Power Conditioner Power factor and harmonic correction combined



Save money on your power bill by reducing power factor penalty charges. The PCS100 RPC offers a true power factor solution correcting both displacement and distortion power factor.

### Benefits of installation

- Save money on utility reactive power charges
- True power factor correction (reactive and harmonic)
- Reduced transformer heating and reduced system losses
- Improved factory supply with less voltage distortion
- Higher loadings are possible

### The truth about power factor

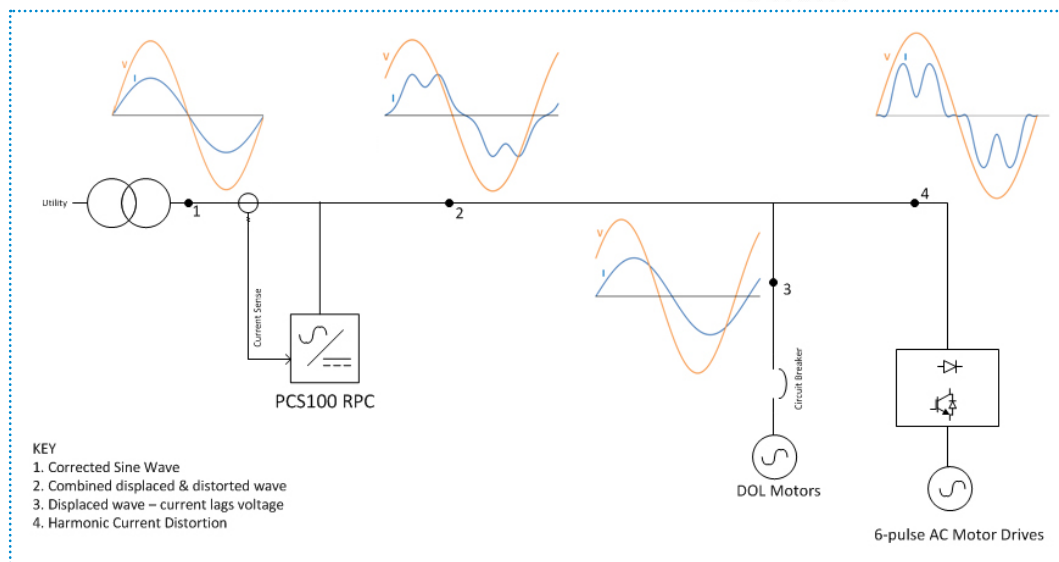
Utilities charge for poor power factor, calculated on true power factor. This is the displacement and distortion power factor

combined (reactive and harmonic currents). To reduce penalty charges on your electricity bill both displacement and distortion power factor need resolving.

### PCS100 RPC solution

ABBs PCS100 RPC uses high speed IGBT inverter technology to control reactive power flow into the AC network. Typically the target power factor is set to 0.95 and a harmonic filter set for the 5th and 7th harmonics.

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The diagram shows loads with both reactive and harmonic currents. Without a PCS100 RPC installed this current is sourced from the utility. With the PCS100 RPC installed the waveform is corrected at point 1 (utility).