



# Power quality is only half the problem.

## Microgrids

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Whether you're in a remote location, managing high energy costs, wrestling with power reliability challenges or simply want to reduce your carbon footprint, you'll need a Power Conversion System (PCS) to balance volatility from renewable sources and load fluctuation.

Our PCS filters grid voltage and sustains it dynamically through reactive-power injection.

And while there are many PCSs on the market only one comes with a full energy cycle service provider.

### Applications

#### Microgrids

Peak shaving of active power

Stabilization of grid frequency

Active power  $P(f)$  for renewable energy sources (required by grid codes)

Industrial DC distribution

PV-diesel-hybrid power solutions

Power inverters for charging stations

Grid integration of charging stations



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# Power Conversion System

Building a solar park, battery system, development or other large, complex project? Less is more.

Your PCS operating in a grid-forming capacity can provide sustainable energy supply in the most remote locations. Our modular system design allows us to configure your installation with the ideal number of power modules (IPU) for your application and is adjustable on the job.

## Applications

- Rural electrification and microgrids
- Seamless backup operation
- Dynamic grid stabilization
- PV & Wind integration
- Grid booster for DSO
- Optimization of load flow

## Features

- ✓ Efficient connection of PV and energy storage
- ✓ Grid forming (on-grid and off-grid); dynamic power exchange
- ✓ 100  $\mu$ s reaction time for PQ-optimized operation
- ✓ Voltage control active filtering
- ✓ Energy Management System available for Microgrid applications

## Specifications

| AC Voltage                        | AC Power            | Rated AC Power | AC peak current         | Efficiency | DC Input/ Output   | Filter Function         |
|-----------------------------------|---------------------|----------------|-------------------------|------------|--------------------|-------------------------|
| 380 V .. 690 V<br>(50 Hz / 60 Hz) | 100 kW ..<br>400 kW | 125 A .. 500 A | 2 x rated<br>AC current | 98%        | 680 V ..<br>1200 V | 1st .. 51st<br>harmonic |