

# PowerRouter PR50S

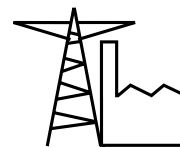
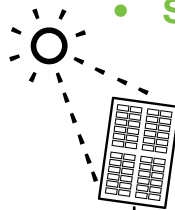
## 5 kW solar inverter - maximize your output

Maximize the output of your solar generator. Control and manage your solar energy - feed-in or self-use - with the management features of the PR50S. The PowerRouter is the perfect solution for on-grid, off-grid and even smart grid applications. Designed in a compact enclosure with expansion capabilities.



### independently manage your power

- 2 independent inputs MPP trackers
- Compatible with all PV technologies, including thin film
- Internet connectivity
- Connect and grow
- Safe and easy installation



### maximize your output

Maximize the power yield of your solar inverter by selecting the most cost effective feed-in, or for your own consumption. Continue to supply your loads during power failures.

Two wide range inputs with independent MPP trackers allows capture of the earliest sunshine.

### you're in charge

Monitor and control your PowerRouter performance with the integrated data logging module, capable of connecting directly to the internet for remote monitoring.

Install new firmware with advanced features or perform updates remotely to keep your system up to date.

### all in one

Create a full hybrid solar and wind-power solution within one enclosure. Simply extend your PowerRouter PR50S with our wind and/or battery module.

This modular solution creates a solar inverter suitable for a variety of on-grid and off-grid applications.

# Specifications PowerRouter PR50S

## Electrical

AC output voltage  
 AC output frequency  
 AC output range (off-grid)  
 Continuous output power at 40 °C (P nom).  
 AC output current  
 Nighttime tare losses  
 Protection  
 Display  
 Connectivity

230 Vac ± 2%  
 50 Hz ± 0.2%  
 180-254 Vac  
 5000 Wac (4600 Wac for Germany)  
 22A (20A for Germany)  
 4W  
 electronic, fused  
 integrated, 4 x 20 characters  
 TCP/IP

true sine wave < 5% THD, single phase  
 45-55 Hz

## Solar input

Solar Voltage  
 MPP Voltage  
 No. of strings  
 MPP trackers  
 Max. Input  
 Max. Efficiency (EU)  
 Max. MPP Efficiency  
 DC Disconnection

150 - 600 Vdc + 5%  
 100 - 450 Vdc  
 2  
 2, fully independent  
 5.5 kWp and 15A per string  
 94%  
 99.9%  
 optional, 4-pole, 600V, 15A

## Environmental

Operating Temperature Range (full power)  
 Storage Temperature  
 Humidity  
 Regulatory Approvals and Standards  
 Safety  
 Emission  
 Immunity  
 Anti Islanding Protection  
 Warranty

- 10 °C to + 50 °C (de-rating from 40 °C)  
 - 40 °C to + 70 °C  
 maximum 95%, non condensing  
 CE  
 EN 60950-1, EN 62109-1  
 EN 55014-1, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3  
 EN 55014-2  
 VDE 0126.1.1, G83/1(UK), RD1663/2000(ESP), other countries on request  
 five years

## Mechanical

Device Dimensions (W x H x D)  
 Solar Connectors  
 Weight  
 Protection Category  
 Topology  
 Cooling

544 x 504 x 149 mm  
 MC4  
 15.5 kg  
 IP 21  
 galvanic isolated transformer  
 forced airflow

## Connect & Grow Options

### On Grid

Solar Backup  
**PR50S + PRE50B**



### Off Grid

Solar Wind Hybrid  
**PR50S + PRE50B + PRE50W**

