

# PowerRouter PR37SB

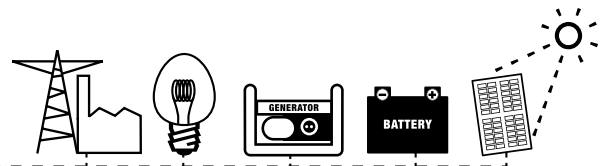
## 3.7 kW solar backup, on-grid and off-grid

Combine solar panels and batteries to an independent energy system. The PR37SB is the very heart of every on-grid and off-grid solar power system. No need for extra inverters, just connect solar, batteries, generators and loads. This simplified, all in one, efficient solution allows you to use your own solar energy for power consumption! Manage and control your energy via the internet portal. You're in charge!



### independently manage your power

- one unit for on-grid and off-grid applications
- compatible with all PV technologies, including thin film
- two independent MPP trackers
- integrated charge controller
- UPS functionality
- plug-in internet connection



### maximize your output

Maximize the power yield of your solar inverter by selecting the most cost effective energy mode. Feed-in, or for your own consumption.

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

Charge the batteries from the grid or with renewable energy. Switch over to off-grid mode within 20 msec. Start a generator when all other resources are depleted.

### you're in charge

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

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

### all in one

Create a fully hybrid solar and wind-power solution within one enclosure. Simply extend your PowerRouter PR37SB by adding our wind module.

The modular PowerRouter creates a solution for a variety of on- and off-grid applications for various renewable energy sources.

## Specifications **PowerRouter PR37SB**

### Electrical

AC Output Voltage	<b>230 Vac ± 2%</b>	<b>true sine wave &lt; 5% THD, single phase</b>
Frequency	<b>50 Hz ± 0.2%</b>	
AC Output range (off-grid)	<b>180-254 Vac</b>	<b>45-55 Hz</b>
Continuous Output Power Watts at 40 °C (P nom).	<b>3700 Wac</b>	
AC output current	<b>16 A</b>	
Protection	<b>Electronic, fused</b>	
Standby losses	<b>6 W</b>	
Display	<b>Integrated, 4 x 20 characters</b>	
Connectivity	<b>TCP/IP</b>	
UPS Switch over time	<b>20 milliseconds</b>	

### Solar Input

Solar Voltage	<b>150 - 600 Vdc + 5%</b>
MPP Voltage	<b>100 - 450 Vdc</b>
No. of strings	<b>2</b>
No. of MPP trackers	<b>2, fully independent</b>
Max. Input	<b>4 kWp and 15A per string</b>
Max. Efficiency (EU)	<b>94%</b>
MPP Efficiency	<b>99.9%</b>
DC Disconnection	<b>Optional, 4-pole, 600V, 15A</b>

### Battery Input

Battery types	<b>Gel, AGM</b>
Battery Voltage Output Range (Vout)	<b>18 - 32 Vdc</b>
Output Charge Current	<b>30 – 155 A continuous, programmable</b>
Battery capacity	<b>Min. 150 Ah, at 30 A charge current</b>
Charging curve	<b>float or 3-stage adaptive with maintenance</b>
Short circuit protection	<b>electronic, at max. charge current, switch off &lt; 1 sec</b>
Multipurpose relay	<b>2, NO/NC, user adjustable, 250 Vac, 1 A, 24 Vdc, 5 A</b>
Battery temperature compensation	<b>optional</b>
Battery voltage sense	<b>optional</b>

### Environmental

Operating Temperature Range (full power)	<b>-10 °C to 50 °C (de-rating from 40 °C)</b>
Storage Temperature	<b>-40°C to 70 °C</b>
Humidity	<b>Maximum 95% non-condensing</b>
Regulatory Approvals and Standards	<b>CE</b>
Safety	<b>EN 60950-1, EN 62109-1, EN 60335-1,-29, EN 62040-1</b>
Emission	<b>EN 55014-1, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3</b>
Immunity	<b>EN 55014-2,</b>
Anti Islanding Protection	<b>VDE 0126.1.1, G83/1(UK), RD1663/2000(ESP), other countries on request</b>
Warranty	<b>Five years</b>

### Mechanical

Device Dimensions (W x H x D)	<b>765 x 504 x 149 mm</b>
Solar Connections	<b>MC4</b>
Weight	<b>20.5kg</b>
Protection Category	<b>IP 21</b>
Cooling	<b>forced airflow</b>

### Connect & Grow Options

Solar Backup Wind Hybrid

### PR37SB +PRE37W



All specifications are subject to change without prior notice