

PowerRouter PR30SB

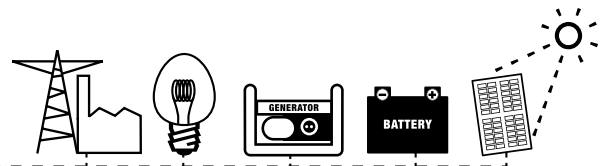
3 kW solar backup, on-grid and off-grid

Combine solar panels and batteries to an independent energy system. The PR30SB 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
- 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.

A wide range input with efficient MPP tracker allows 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 PR30SB 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 PR30SB**

Electrical

AC Output Voltage	230 Vac ± 2%	true sine wave < 5% THD, single phase
Frequency	50 Hz ± 0.2%	
AC Output range (off-grid)	180-254 Vac	45-55 Hz
Continuous Output Power Watts at 40 °C (P nom).	3000 Wac	
AC output current	13 A	
Protection	Electronic, fused	
Standby losses	6 W	
Display	Integrated, 4 x 20 characters	
Connectivity	TCP/IP	
UPS Switch over time	20 milliseconds	

Solar Input

Solar Voltage	150 - 600 Vdc + 5%
MPP Voltage	100 - 450 Vdc
No. of strings	1
Max. Input	3.3 kWp and 15A
Max. Efficiency (EU)	94%
MPP Efficiency	99.9%
DC Disconnection	Optional, 2-pole, 600V, 15A

Battery Input

Battery types	Gel, AGM
Battery Voltage Output Range (Vout)	18 - 32 Vdc
Output Charge Current	30 - 125 A continuous, programmable
Battery capacity	Min. 150 Ah, at 30 A charge current
Charging curve	float or 3-stage adaptive with maintenance
Short circuit protection	electronic, at max. charge current, switch off < 1 sec
Multipurpose relay	2, NO/NC, user adjustable, 250 Vac, 1 A, 24 Vdc, 5 A
Battery temperature compensation	optional
Battery voltage sense	optional

Environmental

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

Mechanical

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

Connect & Grow Options

Solar Backup Wind Hybrid

PR30SB +PRE30W



All specifications are subject to change without prior notice