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# the PowerRouter

## Product overview 2013

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**the PowerRouter**  
you're **in charge**

# PowerRouter information

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## The PowerRouter

- has two fully independent MPP trackers for maximum yield and highly flexible system configuration (with the exception of the 3.0 kW version).
- is compatible with all modern PV technologies, including thin film, due to the built-in galvanical isolated transformer.
- has an on-board DC disconnect switch.
- is a compact, easy to install, all-in-one system.
- is suitable for indoor use (IP20).
- includes a standard 5-year warranty, which can be extended.

## Battery Manager

- available for 24 Vdc lead-acid batteries.
- easy battery cable connections.
- adjustable for optimum charging conditions.
- included temperature sensor for optimum charging and protection.
- integrated shunt for accurate battery status information and optimum charging conditions.
- safe battery voltage.

## Load management

Switch on additional loads in the home when there is sufficient solar energy and the batteries are fully charged. This allows the self-use percentage to be increased even more.

## Monitor and manage – myPowerRouter.com

By connecting the PowerRouter to the internet via the integrated internet connection, you gain access to detailed system information (e.g. performance and solar yield). The PowerRouter can be remotely updated with new software and functions, so changes can be made to the system easily and it always remains up to date.



# PowerRouter products

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## PowerRouter Solar Inverter

### Start smart and be ready for the future

Maximize the yield of the solar power system by selecting the most cost-effective mode, either feeding into the grid or using the self-generated energy yourself.

- self-use up to 20% (without changes to daily consumption behaviour)
- connect & grow capability
- optional: 1- or 3-phase sensor, with the capability of monitoring self-use remotely
- available for 24 Vdc lead-acid batteries



Version	Type number
3.0 kW	PR30S
3.7 kW	PR37S
5.0 kW	PR50S

## PowerRouter Battery Manager - “connect & grow”

### Expansion unit – for maximum self-use or backup

With the connect & grow capability, the PowerRouter Solar Inverter can easily be expanded by adding this intelligent Battery Manager. The expansion unit enables you to store solar energy that cannot be used immediately in batteries for use at a later time. The stored energy can also be used as a backup supply during power outages.

- maximize self-use
- available for 24 Vdc lead-acid batteries



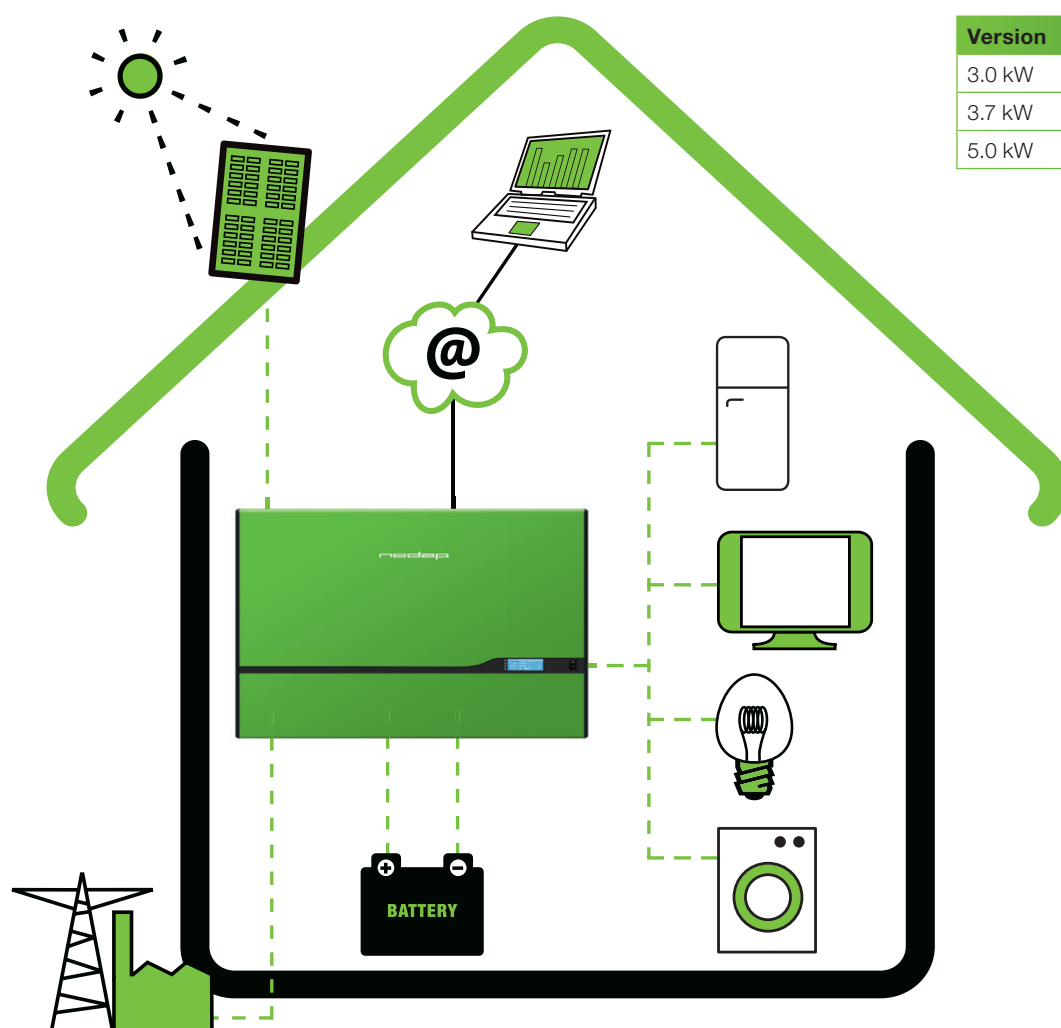
Version	Type number
3.0 kW	PRE30B/24
3.7 kW	PRE37B/24
5.0 kW	PRE50B/24

## PowerRouter Solar Battery – self-use

### Optimum use of self-generated solar energy

The PowerRouter gets more out of the self-generated solar energy by storing surplus power in batteries for later use. The PowerRouter's revolutionary technology creates the best scenario at all times for immediate energy use, storage, or feeding back to the grid.

- maximize self-use
- integrated intelligent Battery Manager
- available for 24 Vdc lead-acid batteries



Version	Type number
3.0 kW	PR30SB-BS/S24
3.7 kW	PR37SB-BS/S24
5.0 kW	PR50SB-BS/S24

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## PowerRouter Solar Battery – UPS backup and off grid

### Uninterruptible power supply (UPS) with grid connection (on grid)

In areas where the power grid is unreliable and unstable, this PowerRouter provides a stable power source by making use of solar energy and energy from the batteries. When the grid fails, the PowerRouter switches over to “island mode” and the user obtains uninterrupted power from self-generated solar energy or from connected batteries in an optimal balance.

### Off grid applications

In remote areas where a grid connection is not possible, this PowerRouter serves as a stable power source, utilizing solar energy and stored energy. The integrated battery manager ensures that loads continue running even when the sun is not shining.

- integrated intelligent Battery Manager
- available for 24 Vdc lead-acid batteries
- uninterruptible power supply (UPS) comes online within 20 ms (on grid)
- charge batteries from the grid (on grid)
- grid export limiter (on grid)
- optional remote monitoring via your own GSM modem



Version	Type number
3.0 kW	PR30SB-PR/S24
3.7 kW	PR37SB-PR/S24
5.0 kW	PR50SB-PR/S24

**For more detailed and country-specific information about the PowerRouter products and local dealers, visit our website at [www.PowerRouter.com](http://www.PowerRouter.com).**

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## About the PowerRouter - you're in charge

The Nedap PowerRouter is the ideal solution for optimising use of self-generated solar energy. The PowerRouter belongs to the new generation of intelligent inverters. With its unique technology, the PowerRouter can invert the self-generated electricity and decide whether to use the generated energy immediately, store it in batteries or feed it back to the grid (if present).

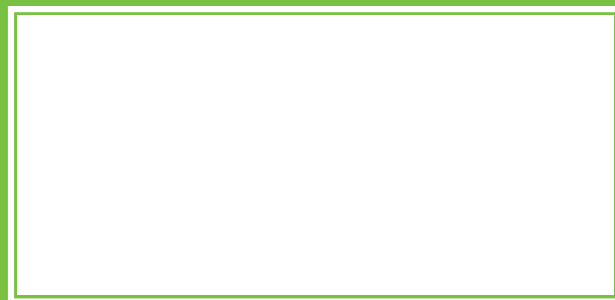
[www.PowerRouter.com](http://www.PowerRouter.com)

## About Nedap - technology that matters

Nedap, based in the Netherlands, is a manufacturer of intelligent technology solutions for today's challenges. Enough food for a growing population, clean drinking water around the entire world, and smart networks for sustainable energy are just some of the goals Nedap is working towards.

Nedap was founded in 1929, it has been listed on the stock exchange since 1947, and employs more than 650 staff worldwide.

[www.nedap.com](http://www.nedap.com)



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