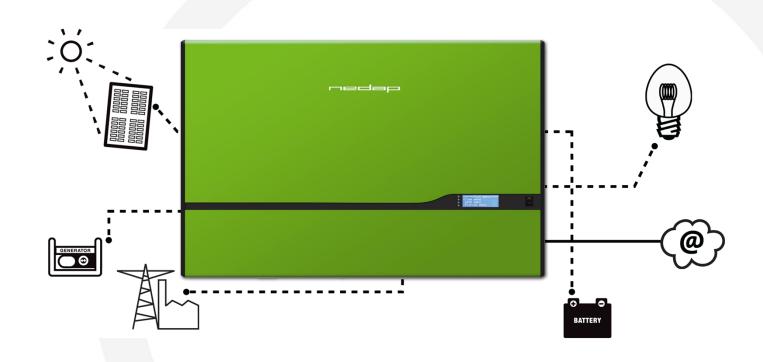
the PowerRouter you're in charge













Who is Nedap

the PowerRouter you're in charge

- Nedap N.V. was founded in 1929
- Head office in Groenlo, the Netherlands
- Listed on the AEX stock exchange since 1947
- 600+ employees worldwide
- Total of 122 MW of produced inverter capacity
- Over 15 year experience in power electronics
- Experience across a range of industries





Security Management



Retail





What is the PowerRouter

- An integrated power management system suitable for:
 - Solar Inverter generate and use your own solar energy
 - Solar Battery for self sufficiency (off grid)
 - Solar Battery for UPS backup (on grid)
 - Self Use optimise use of self generated solar energy with batteries
 - Off Grid
- A compact, easy to install and all-in-one system that inverts and routes generated renewable energy. Includes a web based customer portal and online monitoring.
- "Local Out" connection switches to "Island Mode" when grid fails supplies power to a local load without batteries.



Fully Integrated System

- Local power out supply of power to residence should the grid go down – assuming solar available – to dedicated GPO
- Upgradeable and expandable
- 2 x MPP trackers on 3.7 and 5.0kw
- 5 years complimentary online monitoring
- Customer web portal www.mypowerrouter.com includes full energy consumption data
- Compact, easy to install, an all-in-one system
- Solar expandable to cater for self use in future
- Smart Grid ready
- Excess energy can be redirected from supply to grid to optional appliance eg pool pumps (New Late 2012)



Available In

the PowerRouter

Solar



+ Expansion Unit



Solar Back up



Self Use



Versions available: 3.0, 3.7 & 5.0 kw



Local Out - Power Without Grid

- When Grid fails, the PowerRouter enters "anti island" mode to protect linesman
- Only inverter in world that is certified not to shut down when grid goes down
- Power diverted through the local out
- Loads still serviced via renewable input
- Charge your phone or laptop, lights etc...
- Power without batteries or grid









Modular & Expandable

Create a Future Revenue Stream

- Solar Module is expandable with Expansion Unit
- Becomes a full Solar Backup or Self Use Model
- Create opportunity to start with Solar (cost effective)



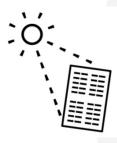




Solar with Battery (PRSB)

- UPS functionality (On grid)
- Completely off grid
- Suits fringe of grid or brown/blackout areas







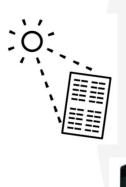






Battery Back Up Mode

- Grid disruption. Loads on local out serviced by the solar and batteries
- Grid resumes, battery charged to float via solar or grid
- How long do I have power?



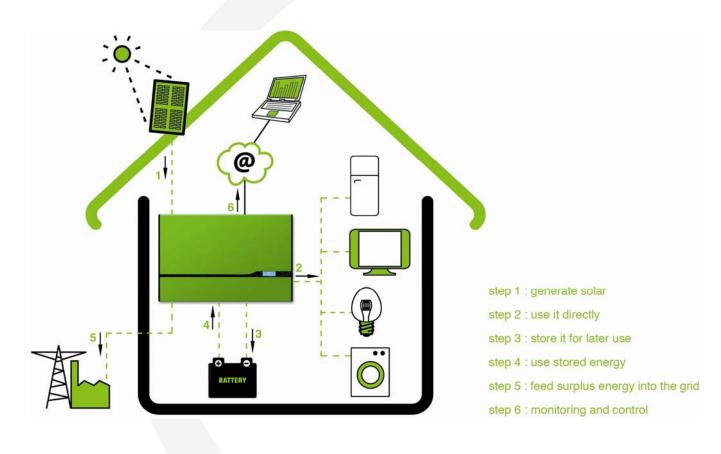








Self Use (PRSU)





Self Use Mode

- All loads serviced by solar then batteries
- Only feeds to grid when there is excess solar
- Parallels with grid when more energy is required









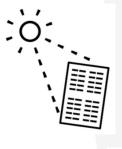


Self Use Mode Installation

Local out connected to dedicated GPO

Installation of current sensor (provided) at incoming active and connected to CAN BUS on PowerRouter















Self Use Yield





Self Use Consumption

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Dual Independent MPP Trackers

- Two built in fully independent MPPT's (3.7 & 5 kW versions)
- Full input capacity on each MPPT
 - (Eq. 3.7 kW x 2 and 5 kW x 2)
- Asymmetric loading capabilities
 - Allows for varied configurations
 - Different technologies; thin film, poly, mono etc...







Monitor & Manage

www.mypowerrouter.com

- An internet portal and mobile app for monitoring, controlling and managing your PowerRouter
- Dealers, installers, utilities and other stakeholders can have access to customer's installation data ensuring excellent service and support.







The Distributor: Monitor & Manage

www.mypowerrouter.com

- An internet portal and mobile app for monitoring, controlling and managing your **PowerRouters**
- Dealers, installers, clients can have access to customer's installation data ensuring excellent support.
- Create and maintain important relationships
- Provide an impeccable level of service to your customer





What the Customer Sees







What the Customer Sees





What the Customer Sees





Quick to Install

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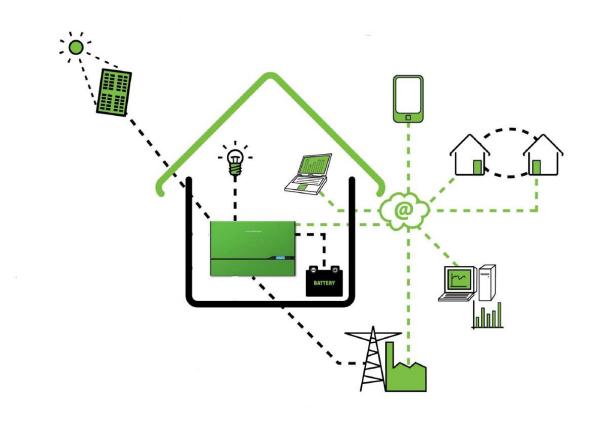


Only 30 Mins





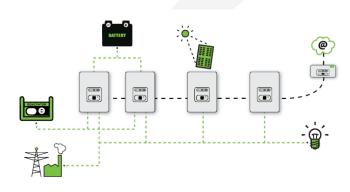
Smart Grid Ready



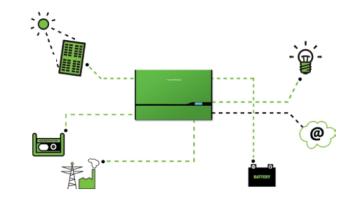


Fully Integrated System

the PowerRouter



The PowerRouter all-in-one solution resolves these issues.



- Upgradeable
- Expandable
- Installation <30 mins.
- Caters for wind
- Smart Grid Ready



BatteryMate Kits





The BatteryMate is a sturdy, fully ventilated storage container designed specifically for the protection of your valuable batteries!

Just Click and Connect!





BatteryMate Kits

Stackable



Housing for Cabling



the PowerRouter

Benefits

- •Expandable to add more later
- Stackable
- Compliant to ASNZ Standards
- •Full kit nothing else required
- Quick to assemble



Kit Includes

- Battery Mate
- Batteries
- •All cabling preterminated
- Breakers
- Interconnects
- Battery positioners



Schneider Breakers



Schneider Breakers



Ventilated Walls



Battery Interconnects



BatteryMate Kits



Option 1 Suitable for installer to utilise own batteries and cabling option



Option 2 Suitable for Battery Backup solution with 4.8kWh of available energy



Option 3 4.8kWh Option for Self Use with 2.4kWh available energy at 50% DOD expandable



Option 4 12.0kWh Option for Self Use with 6.0kWh available energy at 50% DOD

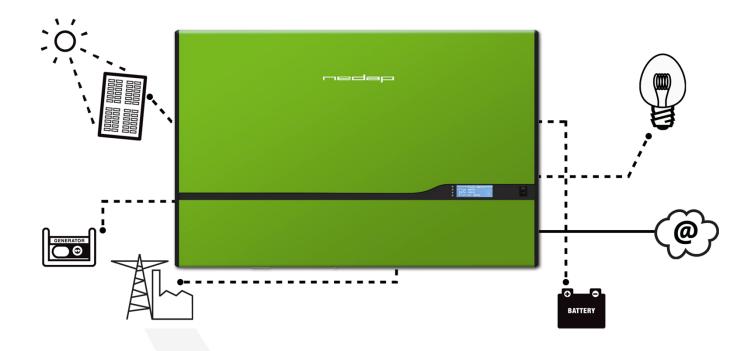


Option 5 19.2kWh Option for Self use with 9.6kWh available energy at 50% DOD - or small off-grid



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An Integrated Power Management System

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