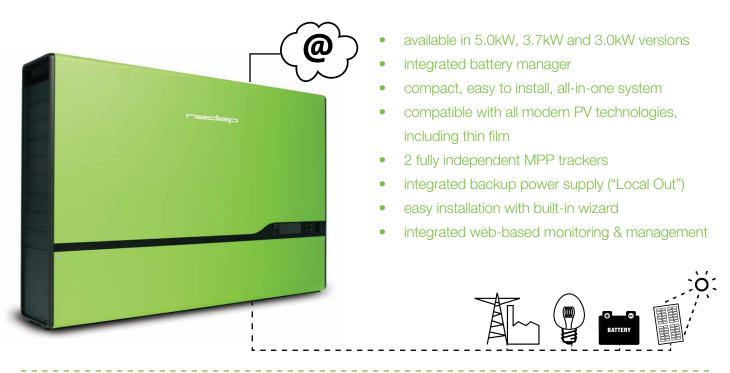


# **PowerRouter Solar Battery**

### for feed-in with backup power supply

This PowerRouter is best suited for countries with feed-in or generation tariff programs where grid failures occur frequently. Integrated into a single compact unit, the PowerRouter feeds self-generated solar energy back into the grid, while ensuring that the battery remains full. During a grid failure, the PowerRouter switches over to "island mode" and its fully charged batteries keep your loads energized. No extra inverters or cables are necessary. Simply connect solar panels, batteries and loads to the PowerRouter and start saving.



#### maximize your output

Maximize the yield of your solar power system by selecting the most cost-effective energy mode. The system has two wide-range inputs with fully independent MPP trackers to maximize yield and system configuration flexibility.

This revolutionary technology allows the PowerRouter to keep its battery full at all times, charging it either from the grid or from self-generated solar energy. Charging conditions can be adjusted to maximize the lifetime of the batteries.

#### backup power supply

The PowerRouter Solar Battery has a unique feature: it supplies backup power in the event of a grid failure. Unlike other inverters, the PowerRouter switches to "island mode" when the grid fails. After a short delay it resumes operation, enabling its unique "Local Out" connection to supply a stable 230Vac power signal to your connected loads.

#### monitor & manage

When the PowerRouter is connected to the internet, the web portal myPowerRouter.com gives detailed system information (e.g. performance, profit, solar yield) on each PowerRouter unit. The PowerRouter can even be remotely updated with new firmware containing the latest features, so your system is always up to date.



## Specifications PowerRouter Solar Battery

Grid	PR50SB-BU	PR37SB-BU	PR30SB-
Continuous output power at 40 °C (P nom)	5000 Wac (4600 Wac DE)	3700 Wac	3000 Wad
AC output current	22A	16A	13A
AC output voltage (nominal)	230 Vac ± 2%, 50 Hz ± 0.2	%, true sine wave <3%	THD, single phas
AC output range	180-264 Vac 45-55 Hz (lim	nited by local anti-islandi	ng regulations)
Protection	electronic, fused		
Standby losses	≤ 6W		
User interface	interactive display with 4-bu	tton operation	
Connectivity	ethernet RJ45, TCP/IP		
Backup switch over time	<1 second		

Solar	
Max. Input	
No. of strings	
No. of MPP trackers	
DC Disconnection switch	
Solar Voltage	
MPP Voltage	
Solar Connections	
Max. Efficiency	
Max. MPP Efficiency	

PR37SB-BU	PR30SB-BU
4 kWp and 15 A per string	3.3 kWp 15 A
2	1
2, fully independent	1
4-pole, 600V, 15A	2-pole, 600V, 15A
	4 kWp and 15 A per string 2 2, fully independent

Battery
Output charge current
Battery types
Battery voltage output range (Vout)
Battery capacity
Charging curve
Short circuit protection
Multipurpose relay
Battery temperature compensation
Battery voltage sense
Current shunt

PR50SB-BU	PR37SB-BU	PR30SB-BU
25 - 200 A continuous,	25 - 155 A continuous,	25 - 125 A continuous,
programmable	programmable	programmable
Gel, AGM, NiCd, Li-ion		
18 – 32 Vdc		
min. 100 Ah, at 25A charge current		
float or 3-stage adaptive with maintenance		
electronic, at max. charge current, switch off <1 sec		
2 (NO/NC, 250 Vac, 1 A, 24 Vdc, 5 A)		
included		
included		
included		

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 (derating from 40 °C)
-40 °C to +70 °C
maximum 95%, non-condensing
CE
EN 60950-1, EN 62109-1, EN 60335-2-29
EN 55014-1, EN 61000-3-2, EN 61000-3-3, EN 61000-6-3
EN 55014-2, EN 61000-6-2
VDE 0126.1.1, G83/1(UK), RD1663/2000(ESP), DK5940 E.d. 2.2 (IT), AS4777(AUS)
(check www.PowerRouter.com for other country certifications)
five years (optional: extension to ten years)

General	
Dimensions (WxHxD)	
Protection Category	
Weight	
Topology	
Cooling	

PR50SB-BU	PR37SB-BU	PR30SB-BU
765 x 502 x 149 mm		
IP 21		
20.5 kg		
galvanic isolated transformer		
forced airflow		

All specifications are subject to change without prior notice © Copyright 2011