

PowerRouter Battery Manager

Expansion Unit optimizes self-use, provides backup power

Expand your PowerRouter Solar Inverter with the Intelligent Battery Manager. Simply add the expansion unit to your PowerRouter, using its built-in “connect & grow” capability. With the Battery Manager, you can store surplus energy for later use. Optimize the amount of self-generated solar energy you consume and receive a higher incentive. Or use the battery-stored power as a backup supply when the grid fails. Like the PowerRouter, the Battery Manager is compact and easy to install. Simply connect it to your PowerRouter and enjoy the additional benefits. You’re in charge!



- simple plug-in battery cable connection
- integrated float charger or three-stage adaptive charger
- protects against overcharging and deep discharge
- temperature sensor and voltage sense for optimum charging and damage prevention
- integrated short circuit protection
- integrated shunt for accurate battery status information and optimum charging conditions
- for Gel, AGM, NiCd and Li-ion battery banks



maximize your output

With the Battery Manager you can store your surplus solar energy in batteries. With this new technology, you can increase your self-use to 70%. In other words, consume 70% of the power you generate, and receive a higher generation tariff for this energy (if applicable).

backup power supply

An added advantage is that the PowerRouter with Battery Manager can provide backup power in the event of a grid failure. Unlike other inverters, the PowerRouter switches to “island mode” when the grid fails. After a minimal delay it resumes operation, supplying a stable 230Vac power signal to the connected loads, while the batteries keep your loads energized.

intelligent battery manager

The battery manager keeps your batteries charged to an optimal level at all times, drawing either from your self-generated power or from the grid. You can maximize output and prolong battery life by adjusting the charging conditions.

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

PRE50B	PRE37B	PRE30B
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25 - 200 A continuous, programmable	25 - 155 A continuous, programmable	25 - 125 A continuous, 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
Warranty

PRE50B	PRE37B	PRE30B
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-10 °C to +50 °C (derating from 40 °C)	-10 °C to +70 °C	
maximum 95%, non-condensing		
CE		
EN 60950-1, EN 60335-2-29		
EN 55014-1, EN 61000-6-3		
EN 61000-6-2, EN 55014-2		
five years (optional: extension to ten years)		

General

Dimensions (WxHxD)
Protection Category
Weight
Cooling

PRE50B	PRE37B	PRE30B
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272 x 504 x 149 mm		
IP 21		
8.4 kG		
forced airflow		

Connect & Grow

PowerRouter Solar Inverter + Battery Manager



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