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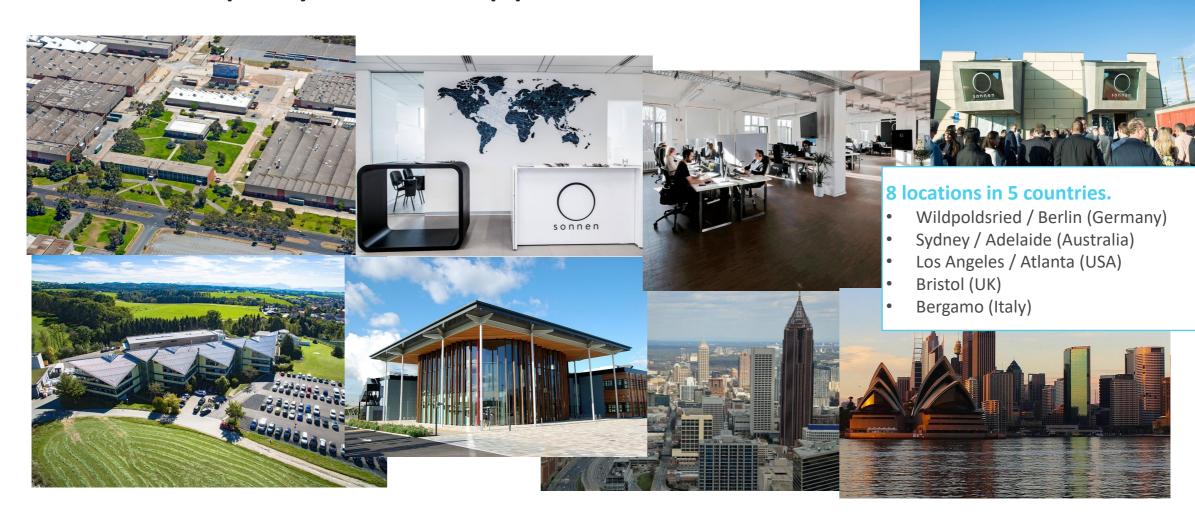


Who we are.

SonnenGlobal market leader for lithium iron phosphate batteries ...Multiple national and international awards ...More than 30,000 battery storage units installed worldwide ...More than 30,000 battery storage units installed worldwide ...More than 120,000 people supplied with electricity from renewable energy sources



Global Company, Local Support.



Product history.





Awards.

April 2018

Red Dot Award Product Design 2018. April 2018

INNOVATION AWARD IT 2018.

January 2018

Global Cleantech 100 list 2018.

August 2017

Top storage battery 2017.

April 2017

1.000 Europe's Fastest Growing Companies.

January 2017

Global Cleantech 100 "Continued Excellence Award".



























Zayed Future Energy Prize.

German Sustainability Award 2016.

November 2016

Focus Wachstums-Champion 2017.

November 2016

Deloitte Technology Fast 50 Award 2016. June 2016

50 Smartest Companies 2016.

June 2016

Wirtschaftswoche Top Storage Battery 2016.



sonnenFactory in Adelaide.



David Ridgway (Trade Minister), Steven Marshall (Premier), Christoph Ostermann (CEO & Founder sonnen), Daniel van Holst Pellekaan (Energy Minister).



sonnenFactory in Adelaide.

South Australia has a long tradition in manufacturing and a strong focus on renewable energy. This makes it the perfect setting for sonnen's third manufacturing facility.

- Opening in November 2018
- Capacity for 10.000 systems anually, potentially more;
- Hundereds of local jobs will be created
- Factory will be located in the former Holden factory in Elizabeth



"We are very excited to begin manufacturing in SA for the Australian and export markets and anticipate Australia will become the world's number one market for energy storage

systems"

Christoph Ostermann, CEO & Co-Founder sonnen.

German Designed, Australian Made.

sonnen proudly presents:

The first intelligent lithium storage system made in South Australia!

sonnenBatterie

- Intelligent all-in-one energy storage system
- Safe & reliable Lithium-iron-phosphate technology
- Modular
- Energy management to maximize self-consumption
- Monitoring via portal and app
- Energy security & blackout protection







South Australia's Battery Subsidy.

100,000,000 Dollars...

...to support the transition to a clean and affordable energy future.

- Funding for around 40,000 households.
- Up to 6000\$ per installation.
- 500\$ / kWh for regular customers
- 600\$ / kWh for Energy Concession Holders

Plus another

100,000,000 Dollars...

...in loans to support the installation of solar and batteries.

"The South Australian Government is delivering on its commitment to provide more affordable, reliable, secure energy for all South Australians."

www.energymining.sa.gov.au

South Australia's Battery Subsidy.

What you need to know.

- Funding declines over time.
- Within the first three months, only storage systems assembled in Australia are eligible.
- Subsidy scheme starts in October
- Financing offer via Commonwealth Government's Clean Energy Finance Corporation (CEFC)
- Details will be released with launch in October

Go to

http://www.energymining.sa.gov.au/energy_implementation/home_b_attery_scheme

for more information.

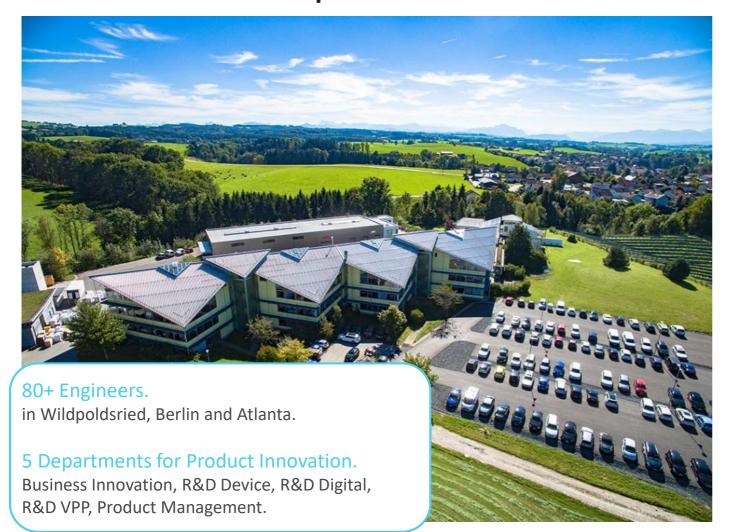






Innovation.

Product Development at sonnen.





Five reasons for sonnen.

Safe

Lithium-Iron-Phosphate cell technology

Long lasting

10 years, 10.000 cycles

Intelligent

In-built battery management system for maximum selfconsumption

Proven

Market leading technology

Local



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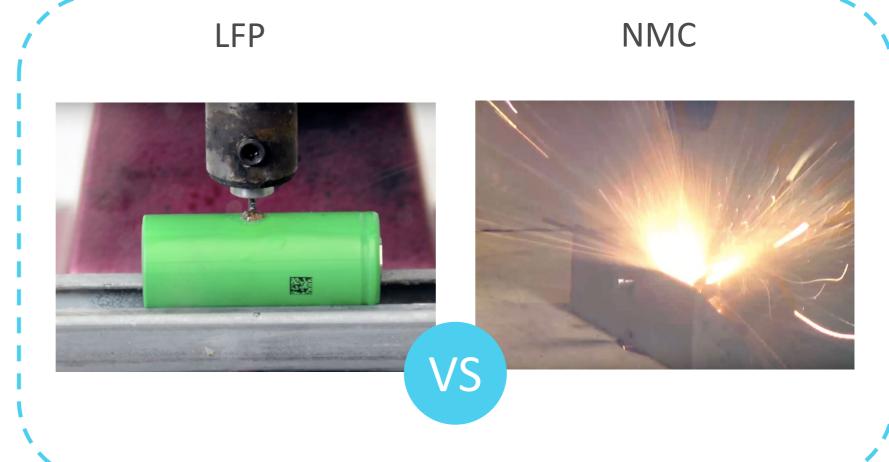
Intelligent

In-built BMS for maximum selfconsumption

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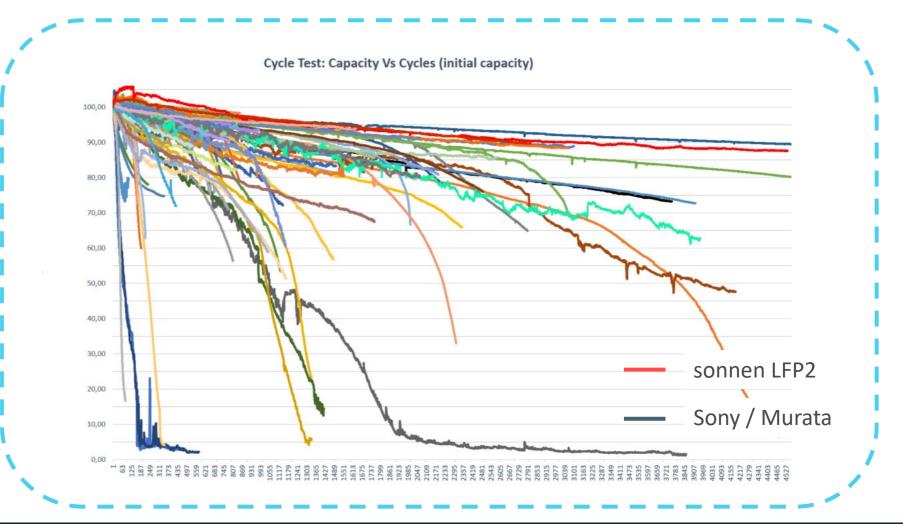
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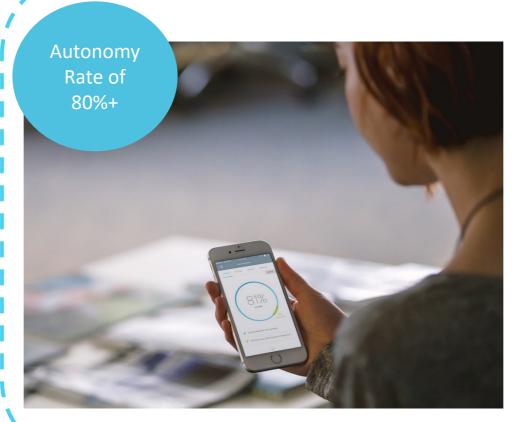
In-built BMS for maximum selfconsumption

Proven

Market leading technology

Local

German designed, Australian made



The energy management system automatically monitors and adjusts as needed.

- Maximisation of self-consumption
- Real-time data from consumption and PV Generation;
- Rapid Response Maximizing Charge /
 Discharge
- Load Control Relays
- Price Arbitrage Time of Use



Five reasons for sonnen.

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- Global Market Leader
- Currently on 9th Product Generation
- Over 30,000 systems sold and installed











2014



2015







sonnenBatterie classic

sonnenBatterie classic 2.0 sonnenBatterie classic 2.0,

2012

sonnenBatterie classic 2.0, comfort

2013

sonnenBatterie classic 2.0, comfort, sonnenBatterie eco 7.0 sonnenBatterie eco 8.0

2016

sonnenBatterie city

2017

sonnenCharger

2018

Flat



Five reasons for sonnen.

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Lithium-Iron-Phosphate cell technology

Long lasting

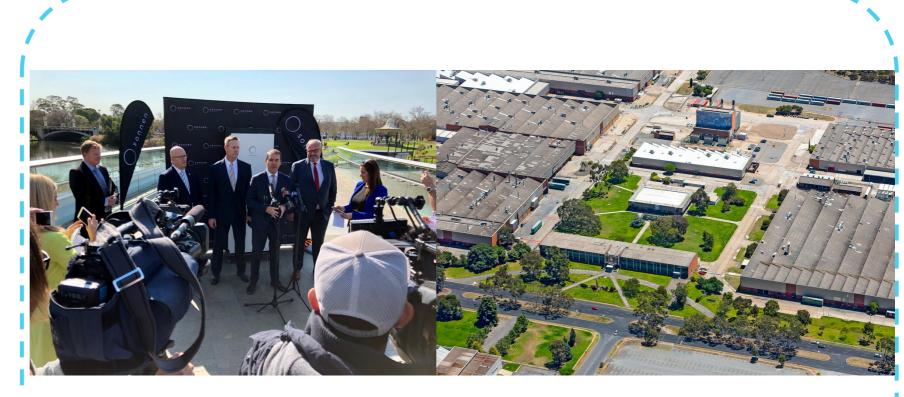
10 years, 10.000 cycles

IntelligentIn-built BMS for maximum selfconsumption

Proven

Market leading technology

Local



Product Overview.

For customers with existing or new PV.

Available NOW

sonnenBatterie eco



6 – 16 kWh Modular in 2 kWh steps 2.5 kW charge / discharge Supports any thrid party PV 2.5 kW No PV recharge For customers with new PV.





5 – 15 kWh Modular in 2.5 kWh steps 3.3 kW charge / discharge Integrates up to 7 kWp PV

Backup

2019

2.5 kW PV recharge



Product Overview.







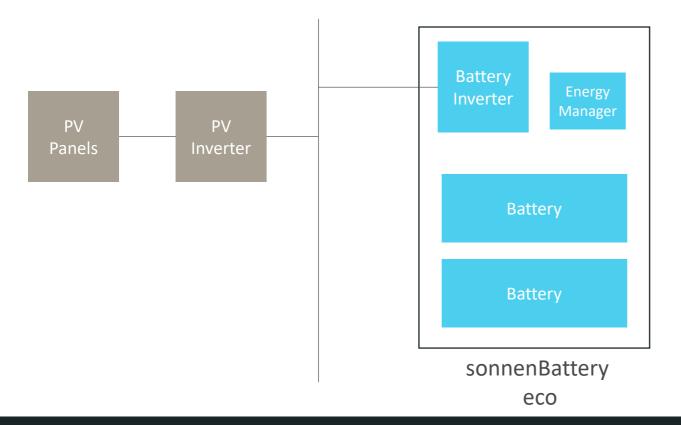


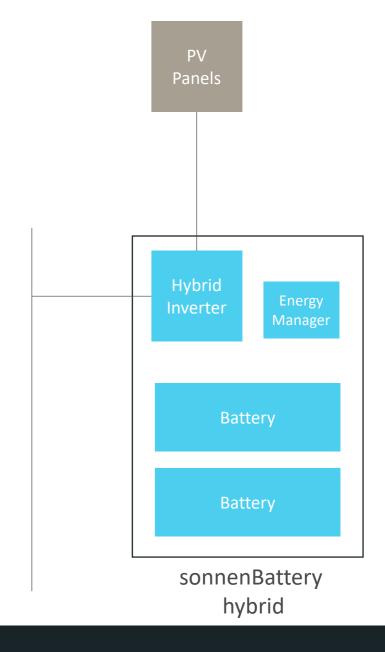


sonnenBatterie hybrid 9.53

Product Overview.

How does the sonnenBattery work?







Comparison.

	sonnenBatterie eco 8.0				sonnenBattery eco 8.2					sonnenBatterie eco 9.43					sonnenBatterie hybrid 9.53							
Phases	Three phase				Single phase					Single Phase					Single Phase							
Nominal Capacity (kWh)	6	8	10	12	14	16	6	8	10	12	14	16	5	7.5	10	12.5	15	5	7.5	10	12.5	15
Usable Capacity (kWh)	6	8	10	12	14	16	6	8	10	12	14	16	4.5	6.75	9	11.2 5	13.5	4.5	6.75	9	11.25	13.5
Charge /discharge power (kW)	2.5 3.3			2.5				2.5	5 3.3			2.5 3.3										
Max. backup power (kW)	-			2.5					-				3.1									
Continous backup power (kW)	-			2.5					-				2.5									
PV	Any third party PV inverter				Any third party PV inverter				-				Up to 7 kWp									

This value decides about how much subsidy money you can get.



hybrid 9.53

Technical Data.

Max. power PV to AC							
Max. power PV to battery							
Max. Input power PV							
Max. PV size (kWp)							
Maximum recommended PV size							
Operation Mode							
Charge / Discharge (kW)							
Capacity							
DoD							

4.6 kW
3.3 kW
6.5 kW
7
≤~7 kWp
single phase
3.3
5— 15 kWh
90%

No. of MPPTs
MPP voltage range
Input voltage PV
Max. Input current PV
Power factor range
DC Connection
Max. Backup Power (1s)
Continous Backup Power

	6.5 kW	
3.3 kW	=	
MPPTs	2	6
oltage range	75 – 600 V	
voltage PV	100 – 750 VDC	
nput current PV	13 A	
factor range	0.9 cap. – 0.9 ind.	
nnection	sunclix	
Backup Power (1s)	3.1 kW	
ous Backup Power	2.5 kW	

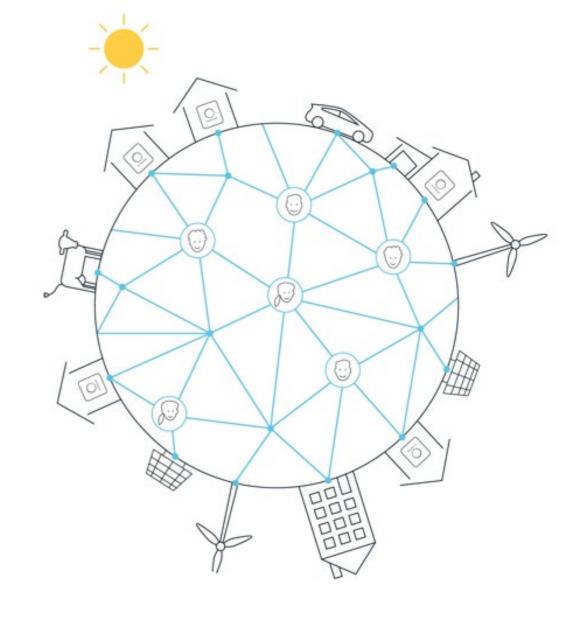




sonnenCommunity.

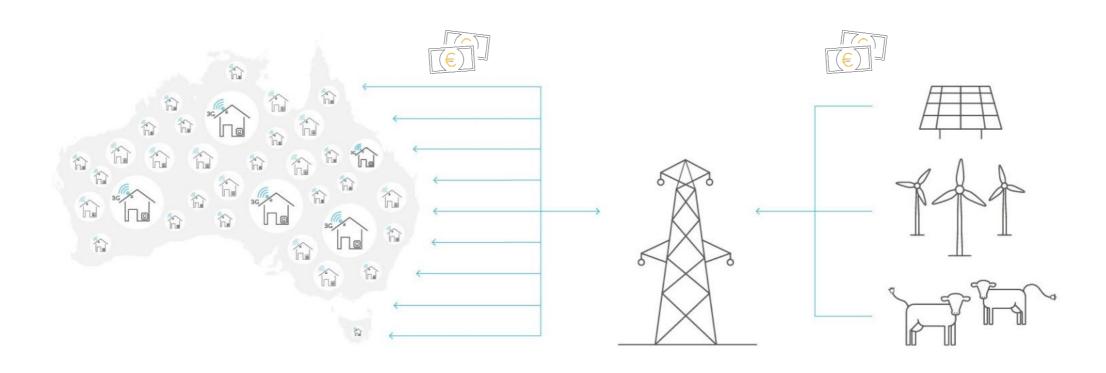
Electricity retail & sharing platform.

o Dollar electricity bill!



sonnenCommunity.

How it works.



Virtual storage pool

Import and export for grid stabilization and spot arbitrage

Renewable Energy



sonnenCommunity.

Electricity tarif.



Monthly fee is excl. GST

sonnenFlat.

The benefits.

Why does sonnenFlat make economic sense?

The sonnenFlat monthly fee equals the monthly grid connection fee that you have previously paid.

What if I require more electricity than my yearly allowance?

• The sonnenFlat excess rate is fixed and at least 10% less than the average electricity price in your region.

What else?

There are no exit fees, no contract term and therefore no lock-in.

