

ESS-5 Battery Storage Unit



ESS-5 is a new modular lithium-ion based energy storage system, which stores the surplus of the collected solar energy for later demand. Energy can either be directed into the storage system or be fed into the public grid via an inverter.

Energy is available as required: in the evening, at night, or on a cloudy day.

With the ESS-5 System, consumers of solar power become more independent from electricity prices and use their home-made electricity when they need it.



6.3kWh storage unit



5kWh usable energy



Expandability up to 75kWh



Compact and robust



SONY Lithium Cells



German unit assembly



5000 full cycles

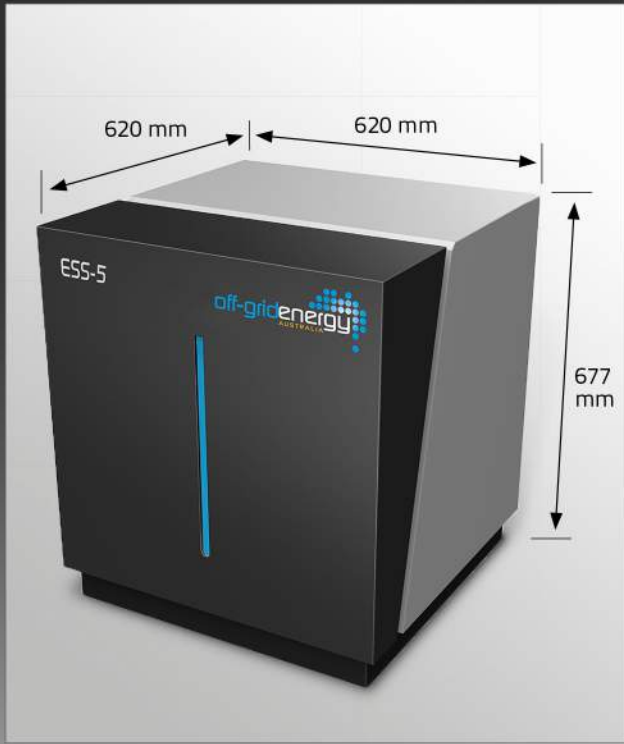


7 year warranty

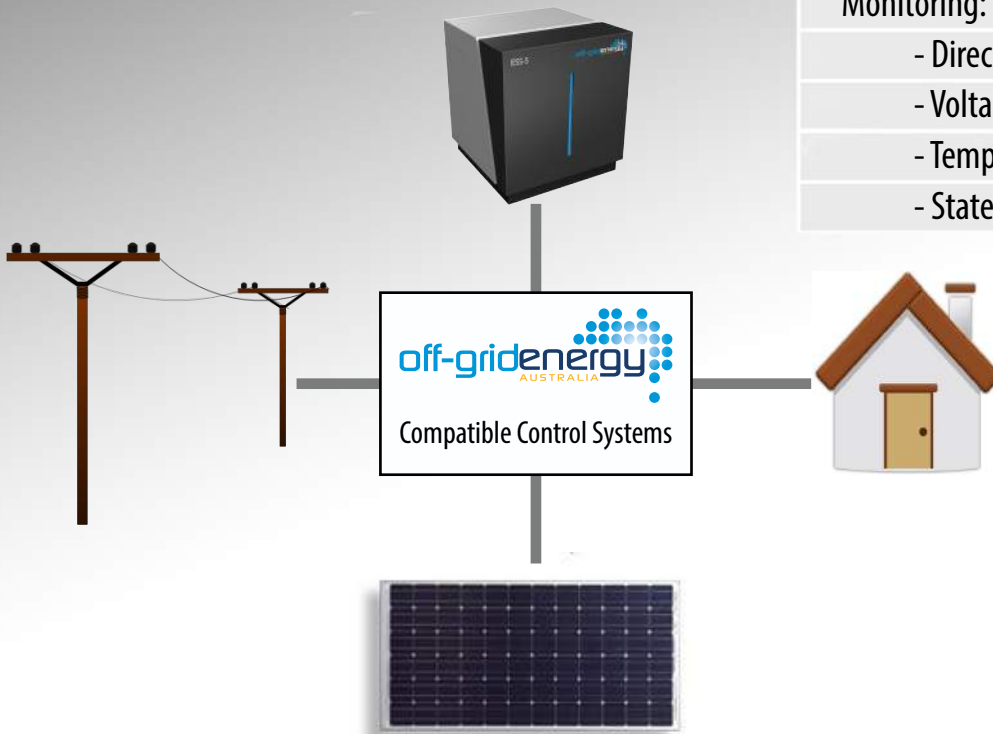


High efficiency of 97%

ESS-5 Battery Storage Unit



Technical Specifications	
Nominal Voltage	54.7V
Capacity Ah	116Ah
Nominal Energy	6.3kWh
Useable Energy 80% DOD	5.0kWh
Full Cycles	5000
Max. Discharge Current	300A (3 sec)
Protection	IP21
Operating Range (°C)	0° to +45°
Dimensions (mm)	620x620x677
Weight (kg)	120
Battery Chemistry	NMC
CE Compliance	Yes
UN-test	38.3
Made in Germany	
Expandable to 75kWh	
Passive Cooling System	
Charge Equalisation between cells	
Integrated communication interface	
Monitoring:	
- Direct Cell	
- Voltage & Current	
- Temperature	
- State of Charge (SOC)	



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Designed according to the standards and user guidelines for stationary lithium energy storage
 VDE-ST-Li-ESS-001: 2013/03, IEC62897Ed1, DIN EN 50272-1, DIN EN 50272-2, DIN EN 61427-1, DIN EN 61427-2, DIN EN 61508, DIN EN 62281, DIN EN 60950-1, DIN EN 62619 (Draft Standard), DIN EN 62620