

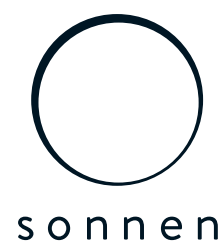
**Expandable
up to
198 kWh!**

Technical Data sonnenBatterie 10

	10/11	10/22
Nominal battery capacity in kWh	11	22
Usable battery capacity in kWh	10	20
Cell technology	LFP (Lithium Iron Phosphate)	
Weight in kg	138	257
Product Dimensions (H/W/D) in cm	172-184/69/27	2x 172-184/69/27
Number of housings	1	2
Installation space requirement (H/W/D) in cm	187/89/127	187/173/127
Nominal power (charging/discharging) in kW	4.6	
Max. inverter efficiency	95%	
Max. battery efficiency	96%	
Ambient temperature range	-5 °C – 45 °C ¹	
Degree of Protection	IP30	
Operating mode	single phase 230V 50Hz ²	
Tests and directives	EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU, CEI 0-21, IEC 61000-6-1, IEC 61000-6-3, IEC 62040-1, IEC 62109-1, IEC 62619, UN 38.3, VDE-AR-E 2510-2, VDE-AR-N 2510-50, VDE-AR-N 4105	
Battery service life	designed for 20 years	
Warranty	10 years ³	
Cycles	10,000 ³	

We reserve the right to make technical changes and updates without prior notice. Specific values, performance data and other information in this data sheet, brochures and other product information, as well as illustrations and drawings in these documents, are solely illustrative and are subject to ongoing revision and modification. We do not warrant the accuracy or completeness of any information in these documents unless otherwise explicitly stated. Only the information in order confirmation documents or purchase contracts is binding.

¹ Optimal: 5 °C - 30 °C | The system can still function below and above 5 °C and 30 °C, however, only with a reduction in power. ² The single-phase storage system can be integrated both in single-phase and three-phase building mains. The power measurement works in one or three phases accordingly. ³ Please be aware that terms and conditions apply.



Technical Data sonnenProtect 4000

Keep the lights on during a power outage with the sonnenProtect.

Nominal power	4,000 W
Nominal frequency	50 Hz
Output voltage	230 VAC / $\pm 10\%$
Overload (30 min)	max. 4,600 W
Max. output current (duration / 100 ms)	20 A / 23 A
Network configuration in emergency power mode	TN
Grid connection	Single phase, L / N / PE
Grid connection fuse	Miniature circuit breaker type B 20 A
Operating mode	Single phase emergency power supply via emergency power circuit(s). Switching to emergency power mode is automatically carried out by the storage system.
Switchover time	Normal operation to back-up power: approx. 5 s back-up power to normal operation approx. 3 s ¹
Threshold performance	None (from 0 W)
Dimensions (cm) (H/W/D)	52/23/12
Weight (kg)	approx. 10
Protection class	II
Degree of protection	IP65
Necessary fault current monitoring	Residual current device (RCD) with max. 300 mA rated differential current; requirements on site must be observed
Environment	Indoor / outdoor areas
Degree of pollution	3
Temperature range	-5 °C - 50 °C
Max. relative humidity	100 %, condensing

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¹ The switchover time can differ depending on the country's grid code.