



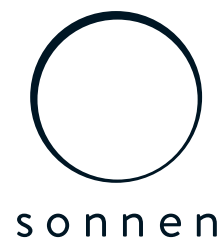
**Expandable
up to
198 kWh!**

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 ¹	
Max. inverter efficiency	95%	
Max. battery efficiency	96%	
Ambient temperature range	-5°C – 45°C ²	
Degree of Protection	IP30	
Operating mode	single phase 230V 50Hz	
Tests and directives	EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU, G98, G99, G98/NI, G99/NI, 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	

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¹ G98: Maximum charge and discharge power of 3.68 kW. ² 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. 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
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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