






Energy Storage System (ESS) for residential applications -

STORION SERIES SMILE-B3



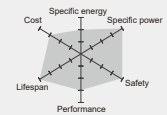
✓ Key Features

-  **AC-Coupling**
-  **Built-in battery**
-  **Modular design**
-  **Easy installation and low maintenance**
-  **24/7 Monitoring**



Real-time Monitoring

All systems can be monitored by **Web and iOS/Android APP**.



Safest Chemistry

AlphaESS uses Li-phosphate for its excellent safety and long lifespan.

About AlphaESS

As one of the earliest pioneers in energy storage market with lithium iron technology, AlphaESS has a vision to pave the path for everyone in the world to enjoy clean energy one day.

AlphaESS is a multinational company that currently has more than 10'000 residential and commercial systems running in 30 countries globally and its products are accredited by IEC, TÜV, CEC and many other international standards.

All AlphaESS energy systems are integrated with smart energy management solutions. AlphaESS is committed to revolutionize the future energy network through our patented German technologies.



System Specification	
Model	Storion-SMILE-B3
Max. AC Output Power	3000 W
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IP Protection	IP65
Dimension (W x D x H)	610 x 236 x 625 mm
Weight	45 kg
Operating Temperature Range	-10 °C ~ 50 °C*, 0 °C ~ 40 °C (0.5C)
Warranty	5 Year Product Warranty, 10 Year Battery Warranty
Inverter Technical Specification	
Max. AC Input Current	13 A
Nominal AC Input Voltage	230 V
Battery Voltage Range	40 V ~ 58 V
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	3000 W
Phase	Single-Phase
Nominal AC Output Voltage	230 V
Grid Voltage Range	180 V ~ 270 V
Rated Frequency	50/60 Hz
Backup	UPS
Grid Regulation	AS 4777.2, VDE-AR-N 4105, G83/2
Safety	IEC 62040-1, IEC 62477-1
Battery Technical Specification	
Module Capacity	2.9 kWh
Usable Capacity	2.8 kWh
Depth of Discharge (DoD)	96%
Module Nominal Voltage	51.2 V
Max. Short-circuit Current	200 A
Cycle Life	10 000 **
Max. Charging/Discharging Current	56 A (1C)
External Battery Expansion	1 ~ 5 M4856-P in parallel
Certification	UN38.3, IEC 62619 (Cell), IEC 62619 (Pack)

*When the temperature is below 0 °C or above 40 °C, the performance will be limited.
 **Under specific test conditions



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