






Energy Storage System (ESS) for residential applications -

STORION SERIES SMILE5



✓ Key Features

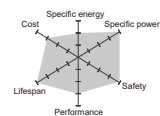
- S**elf sufficient
- M**odular battery
- I**ntelligent control
- L**ong lifespan
- E**ssential load protected
- 5** kW system

-  **Fast response**
-  **Light load threshold**
-  **UPS ability**
-  **Outdoor/Indoor**
-  **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.



product
design award 2018



reddot design award 2018



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.



Official Website



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APP (iOS/Android)



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System Specification

Model	Storion-SMILE5
Nominal Output Power	5000 W / 4600 W (DE)
Capacity Range	5.7 kWh ~ 34.4 kWh (90% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP21 (Indoor) / IP65 (Outdoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty

Inverter Technical Specification

Model	SMILE5-INV	Phase	Single-Phase
Max. PV Input Current	2 x 12 A	Backup	UPS
Max. PV Input Voltage	580 Vdc	Display	LCD
MPPT Number	2	Communication	Ethernet
MPPT Voltage Range	125 V ~ 550 V	Start Up DC Voltage	125 V
Max. Charge/Discharge Current	100 A	Humidity	15% ~ 85% (No Condensing)
Max. Charge/Discharge Power	5000 W	Dimensions (W x D x H)	600 mm x 250 mm x 600 mm
Rated Voltage	230V	Weight	60 kg
Grid Voltage Range	180 Vac ~ 270 Vac	Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/1.3, CEI 0-21: 2014, G59/3
Rated Frequency	50/60 Hz	Safety	IEC 62109-1&-2, CE-EMC

Battery Technical Specification

Module Model	SMILE5-BAT
Module Capacity	5.7 kWh
Module Nominal Voltage	51.2 V
Operating Temperature Range	-10 °C ~ 50 °C*
Module Weight	65 kg
Module Dimension (W x D x H)	600 mm x 250 mm x 600 mm
Max. Modules in Parallel	6
Max. Charge/Discharge Current	56 A (0.5C)
Cycle Life	≥ 6000

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



SMILE5 System Diagram

