






Energy Storage System (ESS) for residential applications -

# STORION SERIES SMILE5



## ✓ Key Features

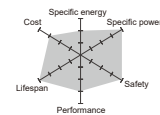
- S**elf sufficient
- M**odular battery
- I**ntelligent control
- L**ong lifespan
- E**ssential load protected
- 5** kW system

-  **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



Scan to download  
APP (iOS/Android)



Twitter



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## System Specification

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

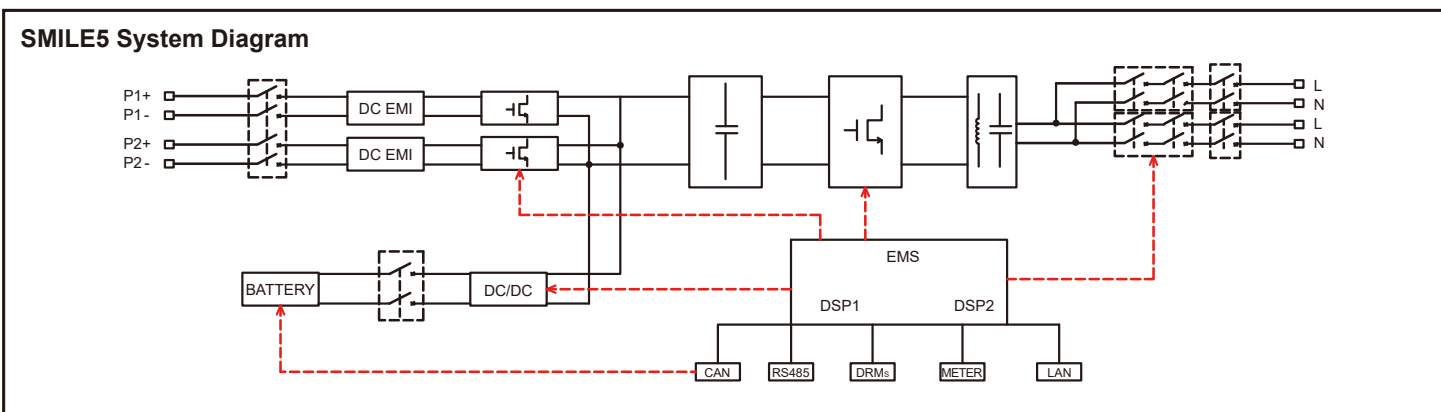
## Inverter Technical Specification

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

## Battery Technical Specification

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

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



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