



AlphaESS
your smart energy



AlphaESS in OCEANIA



Residential
Energy Storage System

Residential Energy Storage System



Key Features

- UPS Ability
- 24/7 Online Monitor
- Safe and Reliable(LFP ONLY)
- Modular Design
- High Compatibility
- Easy Installation and Expansion

SMILE Series

3
kW



SMILE-B3-PLUS

5
kW



SMILE5

6
kW



SMILE-S6-HV

- S**elf Sufficient
- M**odular Battery
- I**ntelligent Control
- L**ong Lifespan
- E**legant Design

5
kW



SMILE-S5

SMILE-G3

10
kW



SMILE-T10-HV



SMILE-B3-PLUS



3kW

Built in 5.04kWh Battery

Expandable to 30.24kWh

Key Features

- Fit for All PV Inverters
- All-in-one Module
- Continuous 3kW Backup



Expandable Battery Module

SMILE-BAT-5P



Datasheet

System Specification

Nominal Output Power	3000 W
Max. AC Input Power	3000 W
IP Protection	IP65
Dimension (W x D x H)	640 x 250 x 725 mm
Weight	60 kg
Operating Temperature Range	-10 °C ~ 50 °C*
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty

Inverter Technical Specification

Max. AC Input Current	13 A
Nominal AC Input Voltage	230 V
Battery Voltage Range	40 ~ 58 V
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	3000 W
Phase	Single-Phase
Safety	IEC 62619
Grid Regulation	AS4777

Battery Technical Specification

Module Capacity	5.04 kWh
Usable Capacity	4.79 kWh
Depth of Discharge (DoD)	95%
Module Nominal Voltage	48 V
Cycle Life	6000
Max. Charging/Discharging Current	52.5 A
External Battery Expansion	1 ~ 5 SMILE-BAT-5P 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.





SMILE5

5kW 5.7kWh/10.1kWh/13.3kWh Module Options Expandable to 80.0 kWh



Key Features

- Classic Black & White Design
- Best Seller
- VPP Ready

Expandable Battery Module

SMILE5-BAT SMILE-BAT-10.1P/13.3p

Datasheet

System Specification

Nominal Output Power	5000 W		
Capacity Range	5.7 ~ 34.4 kWh	10.1 ~ 60.6 kWh	13.3 ~ 80.0 kWh
Usable Capacity Range	5.5 ~ 33.0 kWh	9.7 ~ 58.1 kWh	13.3 ~ 80.0 kWh
Battery Chemistry	LFP (LiFePO4)		
IP Protection	IP65 (Outdoor)		
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty		

Inverter Technical Specification

Model	SMILE5-INV	Rated Frequency	50 / 60 Hz
Max. PV Input Power	2 x 3330 W	Phase	Single-Phase
Max. PV Input Current	2 x 12 A	Backup	UPS
Max. PV Input Voltage	580 V	Display	LCD
MPPT Number	2	Communication	Ethernet / WIFI
MPPT Voltage Range	125 ~ 550 V	Start Up DC Voltage	125 V
Max. PV Short-circuit Current	2 x 15 A	Relative Humidity	15% ~ 85% (No Condensing)
Max. Charging/Discharging Current	100 A	Dimension (W x D x H)	610 x 236 x 615 mm
Max. Charging/Discharging Power	5000 W	Weight	60 kg
Rated Voltage	230 V	EMC	EN 61000-6-1/2/3/4
Safety	IEC 62109-1&-2, IEC 62477-1, IEC 62040.1.1, IEC 62116		
Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/3, CEI 0-21, G99-1, G100, RD 1699, NRS 097-2-1, TOR Erzeuger Typ A		

Battery Technical Specification

Module Model	SMILE5-BAT	SMILE-BAT-10.1P	SMILE-BAT-13.3P
Module Capacity	5.7 kWh	10.1 kWh	13.3 kWh
Module Nominal Voltage	51.2 V	48 V	48 V
Operating Temperature Range	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*
Max. Modules in Parallel	6	6	6**
Max. Charging/Discharging Current	56 A	100 A	100 A
Cycle Life	10 000**	8000***	8000***

* When the temperature is below 0 °C or above 40 °C, the performance will be limited
 ** ≥2 needs to install expansion pack
 *** Under specific test conditions





NEW! SMILE-S5



5kW

5.04kWh Module Option

Expandable to 30.24kWh

Key Features

- VPP Ready
- Built-in Battery
- Slim but Powerful
- Easy Installation & Maintenance



Expandable Battery Module

SMILE-BAT-5P



Datasheet

System Specification

Max. AC Output Power	5000 W
Capacity Range	5.04 ~ 30.24 kWh
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65 (Outdoor)
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty

Inverter Technical Specification

Model	SMILE-S5-INV	Rated Frequency	50 / 60 Hz
Max. PV Input Power	8000 W	Phase	Single-Phase
Max. PV Input Current	2 x 15 A	Backup	UPS
Nominal PV Input Voltage	330 V	Communication	Ethernet / WIFI
Rated Voltage	120 V	Start Up Voltage	120 V
MPPT Number/ Max. input strings number	2/1	Humidity	0~95% (No Condensing)
MPPT Voltage Range	90 ~ 520 V	Dimension (W x D x H)	640 x 250 x 350 mm
Max. PV Short-circuit Current	2 x 22.5 A	Weight	20 kg
Max. Charging/ Discharging Current	100 A	Safety	IEC 62109, IEC 62477
Max. Charging/ Discharging Power	5000 W	EMC	EN61000-6-1/-2/-3/-4
Grid Regulation	AS4777.2, CEI 0-21, G99, G100, EN50549, RD1699, VDE 0126		

Battery Technical Specification

Module Model	SMILE-BAT-5P
Module Capacity	5.04 kWh
Usable Capacity	4.79 kWh
Depth of Discharge (DoD)	48 V
Max. Charging/Discharging Current	52.5 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	6000
Battery Modules Connection	1 ~ 5 in parallel

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





SMILE-S6-HV



6kW

8.2kWh Module Option

Expandable to 49.2kWh

Key Features

-  Full Off-grid Compatible
-  Full 6kVA Heavy Duty Backup
-  VPP Ready



Expandable Battery Module

SMILE-BAT-8.2PH



Datasheet

System Specification

Nominal Output Power	6000 W	
Capacity Range	5 ~ 30.0 kWh (95% DoD)	8.2 ~ 49.2 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)	
IP Protection	IP65 (Outdoor)	
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty	

Inverter Technical Specification

Model	SMILE-S6-HV-INV	Phase	Single-Phase
Max. PV Input Power	9000 W	Backup	UPS
Max. PV Input Current	2 x 15 A	Display	LCD
Nominal PV Input Voltage	360 V	Communication	Ethernet / WIFI
MPPT Number/Max. input strings number per MPPT	2/1	Start Up Voltage	100 V
MPPT Voltage Range	100 ~ 550 V	Humidity	0-95% (No Condensing)
Max. PV Short-circuit Current	2 x 18.75 A	Dimension (W x D x H)	580 x 230 x 606 mm
Max. Charging/Discharging Current	40 A	Weight	27 kg
Max. Charging/Discharging Power	6000 W	Safety	IEC 62109, IEC 62619
Rated Frequency	50 / 60 Hz	EMC	EN61000-6-1/-2/-3/-4
Rated Voltage	230 V	Grid Regulation	AS4777.2

Battery Technical Specification

Module Model	SMILE-BAT-8.2PH
Module Capacity	8.2 kWh
Usable Capacity	7.8 kWh
Nominal Voltage	256 V
Max. Charging/Discharging Current	38.4 A
Operating Temperature Range	-10 °C ~ 55 °C*
Cycle Life	10 000**
Battery Modules Connection	1 ~ 6 in parallel

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

** Under specific test conditions





SMILE-T10-HV



10kW

8.2kWh Module Option

Expandable to 49.2kWh

Key Features

- Three Phase Output
- Low-weight Inverter
- More PV Generation



Expandable Battery Module

SMILE-BAT-8.2PH



Datasheet

System Specification

Nominal Output Power	10000 W
Capacity Range	8.2 ~ 49.2 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65 (Outdoor)
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty

Inverter Technical Specification

Model	SMILE-T10-HV-INV	Rated Voltage	380 / 400 V
Max. PV Input Power	16000 W	Phase	Three phase
Max. PV Input Current	2 x 26 A	Backup	UPS
Max. PV Input Voltage	1000 V	Communication	Ethernet / WiFi / 4G
MPPT Number/Max. input strings number per MPPT	2/2	Start Up Voltage	160 V
MPPT Voltage Range	200 ~ 850 V	Humidity	15% ~ 85% (No Condensing)
Max. PV Short-circuit Current	2 x 39 A	Dimension (W x D x H)	580 x 230 x 606 mm
Max. Charging / Discharging Current	40 A	Weight	30 kg
Rated Power	10000 W	Safety	IEC 62109, IEC 62040
Rated Frequency	50 / 60 Hz	EMC	EN61000-6-1/-2/-3/-4
Grid Regulation	AS4777, CEI0-21, G99, G100, NRS, EN50549, PEA		

Battery Technical Specification

Module Model	SMILE-BAT-8.2PH
Module Capacity	8.2 kWh
Usable Capacity	7.8 kWh
Depth of Discharge (DoD)	95%
Nominal Voltage	256 V
Max. Charging/Discharging Current	38.4 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	10 000**
Battery Modules Connection	1 ~ 6 in parallel

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

** Under specific test conditions





NEW!
SMILE-G3






3.6kW/5kW

10.1kWh Module Option

Expandable to 60.5kWh

Key Features

-  Low-Weight Inverter (12kg Only)
-  Off-Grid Parallel Operation
-  Best Choice for VPP



**Expandable
Battery Module**

SMILE-G3-BAT-10.1P



 **Datasheet**

System Specification

Nominal Output Power	3600 W / 5000 W		
Capacity Range	10.1 ~ 60.5 kWh (95% DoD)		
Battery Chemistry	LFP (LiFePO4)		
IP Protection	IP65 (Outdoor)		
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty		

Inverter Technical Specification

Model	SMILE-G3-S3.6	SMILE-G3-B5	SMILE-G3-S5
Configuration	Hybrid	AC	Hybrid
Max. PV Input Power	5700W	7200W	10000W
Max. PV Input Current	2 x 15 A		
Nominal PV Input Voltage	1000 V		
MPPT Number/Max. input strings number per MPPT	2/1		
MPPT Voltage Range	100 ~ 550 V		
Max. PV Short-circuit Current	2 x 18.75 A		
Max. Charging /Discharging Current	60 A		
Rated Voltage	5000 W		
Rated Frequency	50 / 60 Hz		
Rated Voltage	230 V		
Phase	Single-Phase		
Backup	UPS		
Communication	Ethernet / WiFi		
Humidity	0~90% (No Condensing)		
Dimension (W x D x H)	580 x 230 x 606 mm		
Weight	12 kg		
Safety	IEC 62109, IEC 62040		
EMC	EN61000-6-1/-2 /-3/-4		
Grid Regulation	AS4777.2, NRS 097		
Rated Frequency	50 / 60 Hz		

Battery Technical Specification

Module Mode	SMILE-G3-BAT-10.1P		
Module Capacity	10.1 kWh		
Usable Capacity	9.6 kWh		
Depth of Discharge (DoD)	95%		
Nominal Voltage	96 V		
Max. Charging/Discharging Current	52.5 A		
Operating Temperature Range	-10 °C ~ 50 °C*		
Cycle Life	8000		
Battery Modules Connection	1 ~ 6 in parallel		

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





VPP Technology

P2P Energy Trading



• Ancillary Services

The combination of several flexible production and consumption units, controlled by a central intelligent system, is the core behind a VPP, which can stabilize the grid by balancing energy supply and demand.

• Electricity Arbitrage

Optimize trading strategies to maximize returns. VPP can utilize the aggregated power to react to changes in electricity pricing on the exchanges by adapting to the existing supply of power on the grid and thus optimize trades.

• 3. Ready for the future

In order to ensure the quality of grid, the Australia government is implementing increasingly stringent policies on VPP. Fortunately, AlphaESS is the one that always get prepared for everything. The new product - SMILE G3 is specially designed for the trends. The SMILE G3 is able to scrape data more frequently, compared to other SMILE family members, and respond to the dispatch commands more often. It was born to be VPP ready and provide clients more accurate calculation of revenue and maximum benefits by more precise monitoring.



Smart Energy

AlphaCloud Platform

Connects all the AlphaESS systems and enables monitoring, smart control, trading and energy service.



Make maximum use of your PV system



Smartly control your system to reach the highest self-consumption



Set parameters control and build VPP



Monitor your system 24/7 and upgrade it remotely



Enjoy a smart home with IoT compatible



Portable Power Station



May The Power Be With You

BlackBee-1000

1000 W / 1036 Wh / 10.2 kg



Key Features


- SOS Function
- 94V0 Flame-resistant Case
- State of the art & practical design
- Fast Solar Recharging with MPPT
- Wireless Charging Pad for Mobiles & Devices
- Capable of Charging 12 Devices Simultaneously


Datasheet


Basic Parameters			
Nominal Energy	1000 Wh	Battery Type	Li-ion
Operating Temperature for Charging	0 ~ 40 °C	Operating Temperature for Discharging	-10 ~ 40 °C
Dimension (L x W x H)	340 x 255 x 270 mm	Warranty	2 Years
Weight	10.2 kg		
Electrical Parameters			
DC Input	24 V / 7.5 A (9 ~ 36 V)		
USB C Input	PD100 W (5 V / 3 A; 9 V / 3 A; 12 V / 3 A; 15 V / 3 A; 20 V / 5 A)		
Rate Output Power	1000 W	Peak Output Power	2000 W
AC Output	230 V / 50Hz	Car Port Output	1 * 12 V / 10 A
USBC Output	Output 1: PD100 W (5 V / 3 A; 9 V / 3 A; 12 V / 3 A; 15 V / 3 A; 20 V / 5 A)		Output 2: 5 V / 3 A
USBC Output	Output 1: 5 V / 2.4 A		Output 2: 5 V / 2.4 A
Wireless Charging	2 * Wireless Charging (Single 10 W; Total 15 W)		
LED Light	3W, 6500K, >300LM		


Why AlphaESS?




 **1.** Make the best use of your PV system and get the highest self-consumption of solar power


 **2.** Reduce the electricity cost by self-consuming, load shifting and peak shaving


 **3.** VPP revenue, including ancillary services and electricity arbitrage

 **4.** Energy independence

 **5.** No blackout, uninterrupted power supply (UPS) available


 **6.** Reduce carbon footprint

 **7.** Monitor your power system 24/7 and upgrade it remotely

 **8.** Optional commission modes (AC/DC/Hybrid Coupled) and phases (single/three)


 **9.** EV charger compatible

 **10.** IoT (Internet of Things) compatible

 **11.** Safest LFP battery ONLY




Local Service Support

 AlphaESS is a leading global energy storage solution and service provider. The company specializes in residential and commercial applications and delivers cost effective and fit-for-purpose solutions.

AlphaESS has 10+ subsidiaries, providing local services and 60000+ systems actively running in over 70 countries, enabling millions of people to live with reliable, accessible and clean energy.

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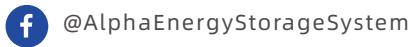




Running in
70+ countries
around the world



" AlphaESS storage system - good product, good concept , good advice , good implementation . I am still satisfied with my photovoltaic system and integrated power storage and can only recommend the system to everyone. "



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