



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



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





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)

* Max. charge/discharge current derating will occur with changes in temperature and SOC.





SMILE-G3-S3.6



3.6kW

4kWh Module Option

Expandable to 16kWh

Key Features

- FAST FCAS
- VPP Ready
- 200% PV Input
- Support Dual Power Supply (Grid & Diesel Generator)



Expandable Battery Module

SMILE-G3-BAT-4.0S



Datasheet

System Specification

Nominal Output Power	3680 W
Capacity Range	4 ~ 16 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65(Outdoor)
System Dimension (W x D x H)	610 x 250 x 1161 mm (with Bracket)
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty

Inverter Technical Specification

Model	SMILE-G3-S3.6-INV
Configuration	Hybrid
Max. PV Input Power	7360 W
Max. PV Input Current	15 A / 15 A
Max. PV Input Voltage	580 V
MPPT Number/Max. input strings number per MPPT	2/1
MPPT Voltage Range	100 ~ 550 V
Max. PV Short-Circuit Current	18.75 A / 18.75 A
Max. Charging /Discharging Current	60 A
Rated Voltage	3680 W
Rated Frequency	50 / 60 Hz
Rated Voltage	230 V
Phase	Single-Phase
Backup	UPS
Communication	Ethernet / WiFi
Humidity	0~90% (Non-Condensing)
Dimension (W x D x H)	610 x 212 x 366 mm
Weight	19.5 kg
Safety	IEC 62109, IEC 62040
EMC	EN61000-6-1/-2/-3/-4
Grid Regulation	AS4777.2, NRS 097, VDE 0126, VDE 4105, EN 50549

Battery Technical Specification

Module Mode	SMILE-G3-BAT-4.0S
Module Capacity	4 kWh
Usable Capacity	3.8 kWh
Depth of Discharge (DoD)	95%
Nominal Voltage	96 V
Max. Charging/Discharging Current	42 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	8000**
Battery Modules Connection	1~4 in series connection

* Max. charge/discharge current derating will occur with changes in temperature and SOC.
** Under specific test conditions.





SMILE-G3-S5



5kW

10.1kWh Module Option

Expandable to 60.5kWh

Key Features

- FAST FCAS
- VPP Ready
- 200% PV Input
- Support Dual Power Supply (Grid & Diesel Generator)



Expandable Battery Module

SMILE-G3-BAT-10.1P



Datasheet

System Specification

Nominal Output Power	5000 W
Capacity Range	10.1 ~ 60.5 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO4)
IP Protection	IP65(Outdoor)
System Dimension (W x D x H)	610 x 230 x 1168 mm (with Bracket)
Warranty	5 Year Product Warranty, 10 Year Battery Performance Warranty

Inverter Technical Specification

Model	SMILE-G3-S5-INV
Configuration	Hybrid
Max. PV Input Power	10000 W
Max. PV Input Current	15 A / 15 A
Max. PV Input Voltage	580 V
MPPT Number/Max. input strings number per MPPT	2/1
MPPT Voltage Range	100 ~ 550 V
Max. PV Short-Circuit Current	18.75 A / 18.75 A
Max. Charging /Discharging Current	60 A
Rated Frequency	50 / 60 Hz
Rated Voltage	230 V
Phase	Single-Phase
Backup	UPS
Communication	Ethernet / WiFi
Humidity	0~90% (Non-Condensing)
Dimension (W x D x H)	610 x 212 x 366 mm
Weight	19.5 kg
Safety	IEC 62109, IEC 62040
EMC	EN61000-6-1/-2/-3/-4
Grid Regulation	AS4777.2, NRS 097, VDE 0126, VDE 4105, EN 50549

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

* Max. charge/discharge current derating will occur with changes in temperature and SOC.

** Under specific test conditions.





SMILE-G3-B5



5kW

10.1kWh Module Option

Expandable to 60.5kWh

Key Features

- FAST FCAS
- VPP Ready
- AC-Coupling
- Easy Installation and Low Maintenance



Expandable Battery Module

SMILE-G3-BAT-10.1P



Datasheet

System Specification

Nominal Output Power	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-B5-INV
Configuration	AC Coupled
Max. Charging/Discharging Current	60 A
Max. Charging/Discharging Power	5000 W
Rated Frequency	50 / 60 Hz
Rated Voltage	230 V
Rated Output Apparent Power (Grid Port)	5000 VA
Rated Output Apparent Power (Backup Port)	5000 VA
Max. AC input Power (Grid Port)	10000 W
Rated Output Current (Grid Port)	21.7 A
Max. AC Output Current (Grid Port)	21.7 A
Rated Output Current (Backup Port)	21.7 A
Max. AC Output Current (Backup Port)	21.7 A
Max Inverter Efficiency	97.3%
Backup	UPS
Communication	Ethernet / WiFi
Humidity	0~90% (No Condensing)
Dimension (W x D x H)	610 x 212 x 366 mm
Weight	19.5 kg
Safety	IEC 62109, IEC 62040
EMC	EN61000-6-1/-2 /-3/-4
Grid Regulation	AS4777.2

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
Battery Voltage Range	91.5 V ~ 106.5 V
Max. Charging/Discharging Current	60 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	8000**
Battery Modules Connection	1 ~ 6 in parallel

* Max. charge/discharge current derating will occur with changes in temperature and SOC.
 ** Under specific test conditions.





SMILE5



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

Key Features

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

Expandable Battery Module

SMILE-BAT-10.1P SMILE-BAT-13.3p

Datasheet

System Specification

Rated Output Power	5000 W	
Rated Output Apparent Power	5000 VA	
Capacity Range	10.1 ~ 60.6 kWh(96% DoD)	13.3 ~ 80 kWh(100% DoD)
Usable Capacity Range	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 Output Apparent Power(Backup Port)	5000 VA
Coupling	Hybrid	Max. AC input Power (Grid Port)	7500 W
Max. PV Input Power	7500 W	Rated Output Current (Grid Port)	21.7 A
Max. PV Input Current	15 A / 15 A	Max. AC Output Current (Grid Port)	21.7 A
Max. PV Input Voltage	550 V	Rated Output Current (Backup Port)	21.7 A
Start-up input voltage	90 V	Max. AC Output Current(Backup Port)	21.7 A
Rated PV Input Voltage	360 V	Max Inverter Efficiency	96.50%
MPPT Number/Max. Input Strings Number Per MPPT	2/1	Backup	UPS
MPPT Voltage Range	70 ~ 540 V	Communication	Ethernet / WIFI
Max. PV Short-circuit Current	18 A / 18 A	Humidity	0 ~ 90% (No Condensing)
Max. Charging/Discharging Current	100 A	Dimension (W x D x H)	610 x 210 x 627 mm
Max. Charging/Discharging Power	5000 W	Weight	27.7 kg
Rated Frequency	50 / 60 Hz	Safety	IEC 62109
Rated Voltage	230 V	EMC	EN 61000-6-1 / EN 61000-6-3
Rated Output Apparent Power (Grid Port)	5000 VA	Grid Regulation	AS4777.2.2020

Battery Technical Specification

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

* Max. charge/discharge current derating will occur with changes in temperature and SOC.

** ≥2 needs to install expansion pack.

*** Under specific test conditions.





SMILE-G2-S5/B5



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-G2-S5/B5-INV	Rated Frequency	50 / 60 Hz
Max. PV Input Power(S5 Only)	8000 W	Phase	Single-Phase
Max. PV Input Current (S5 Only)	2 x 15 A	Backup	UPS
Nominal PV Input Voltage (S5 Only)	330 V	Communication	Ethernet / WIFI
Rated Voltage (S5 Only)	120 V	Start Up Voltage	120 V
MPPT Number/Max. input strings number (S5 Only)	2 / 1	Humidity	0~95% (No Condensing)
MPPT Voltage Range (S5 Only)	90 ~ 520 V	Dimension (W x D x H)	640 x 250 x 350 mm
Max. PV Short-circuit Current (S5 Only)	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

* Max. charge/discharge current derating will occur with changes in temperature and SOC.





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	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

* Max. charge/discharge current derating will occur with changes in temperature and SOC.

** Under specific test conditions.





SMILE-T10-HV



10kW 8.2kWh Module Option Expandable to 49.2kWh

Key Features

- 160% PV Input
- Three Phase Output
- Three Phase Backup
- High Voltage & High Efficiency

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+1	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, CE10-21, 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	32 A
Operating Temperature Range	-10 °C ~ 50 °C*
Cycle Life	10 000**
Battery Modules Connection	1 ~ 6 in parallel

* Max. charge/discharge current derating will occur with changes in temperature and SOC.

** Under specific test conditions.





VPP Technology

P2P Energy Trading



YOUR BEST PARTNER
IN Virtual Power Plant

• 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 stabilise the grid by balancing energy supply and demand.

• Electricity Arbitrage

Optimize trading strategies to maximise returns. VPP can utilise 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 optimise trades.

• Ready for the Future

In order to ensure a stable grid, the Australia government is increasingly regulating VPPs.

The new SMILE-G3 range is designed with VPPs in mind, with higher and more accurate sampling rates and faster response times.

Developed specifically to be VPP-ready and provide clients with greater accuracy, more precise monitoring and, ultimately, greater revenues.



Smart Energy

AlphaCloud Platform

Connect all AlphaESS systems and enable monitoring, smart control, trading and energy services.



Make maximum use of your PV system



Intelligently control your system to maximise self-consumption



Set parameter controls and build VPPs



Monitor your system 24/7 and upgrade it remotely



Enjoy a smart home with IoT compatibility



Portable Power Station



May The Power Be With You

BlackBee 1000



BlackBee 2000



BlackBee 1000



BlackBee 2000



- SOS Function
- 3-level Brightness Area Lighting
- Big Capacity in Small Box
- Equipped with 2 Wireless Charging Pads
- Capable to Charge 12 Devices Simultaneously

Basic Parameters

Output Power	1000 W
Capacity	1036.8 Wh
AC Output	3
DC Output	3
Type-C Output	2
USB Output	2
Wireless Charging Output	2
Weight	10.2 kg


- 95% Inverter Efficiency
- 95% of DoD (Depth of Discharge)
- Equipped with 2 Wireless Charging Pads
- Capable to Charge 15 Devices Simultaneously
- Fully Charged in 1.5 Hours
- AC & Solar Panel Charging


Basic Parameters


Output Power	1600 W
Capacity	2203.2 Wh
AC Output	4
DC Output	2
USB-A Output	4
USB-C Output	2
Wireless Charging Output	2
Weight	21 kg

Why AlphaESS?




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

 **2.** Reduce 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 chemistry




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 15+ subsidiaries, providing local services and 90000+ systems actively running in over 80+ countries, enabling millions of people to enjoy reliable, accessible and clean energy.

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Our Partners

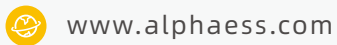
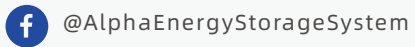




Running in
80+ countries
around the world



" 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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