



Alpha·ESS  
your smart energy

# SMILE5 PRESENTATION

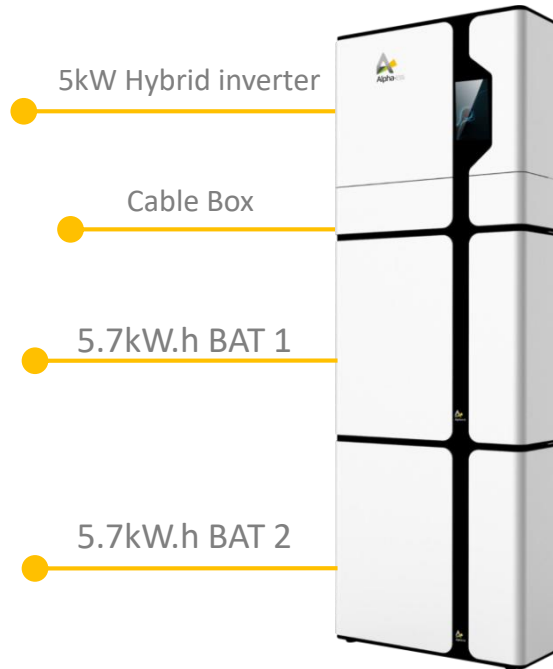
A SMILE you pay, will always return.

Alpha ESS Australia

AUSTRALIA WIDE  
**SOLAR**

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## ALPHAESS SMILE5



### SLIM MODULAR DESIGN . OUTDOOR RATING VARIABLE COLOURS . PLUG AND PLAY . UPS

#### 5KW HYBRID INVERTER MODULE:

- Max. PV input 6.6kW DC.
- Nominal output 5kW AC.
- 100Amp Integrated Charger / Max. 5kW charging Power.
- Uninterrupted Power Supply port.

#### CABLE BOX (always come together with inverter module) :

- A module integrated with Solar and Battery DC Isolators, and grid AC Isolators.

#### 5.73KWH BATTERY MODULE:

- Safest and longest life battery chemistry LiFePO4.
- 5.73kWh nominal capacity with 90% DoD/ 5.16kWh usable.
- 0.5 C/ max. charge & discharge power 2.8 kW each module.

## DIFFERENT CAPACITY FOR DIFFERENT CLIENTS



5KW Hybrid inverter

- For whom expect lower battery price to come, get battery ready systems installed.



5KW/ **5.7KW.H**

- For 2 to 4 kW solar homes.
- For 4 to 6 kW solar homes with > 60% daytime usage.



5KW / **11.5 KW.H**

- For 4 to 6.5kW solar regular households - standard system size.



5KW / **17.2 KW.H or Above**

- For 4 to 6 .5kW solar homes with low daytime usage.
- For 10 to 50kW solar homes or business . (AC coupling).

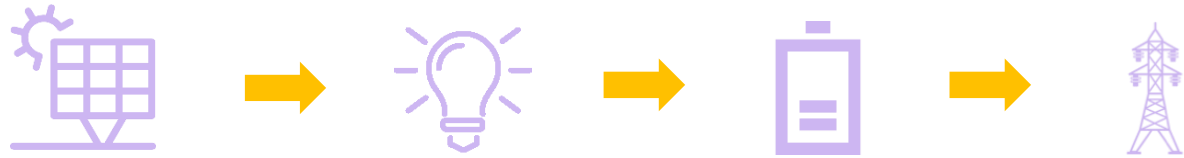
# Self-Sufficient



## Generate - Use - Store

Making your own generated solar energy available day and night.

### Solar Generation



### Load Consumption



# Modulated Battery

# M

## 5.7kWh Battery Module

- 90% DOD, i.e. 5.3 kWh Usable
- 51.2V, 112Ah per Module
- BMS integrated in each module
- Max. 6 Modules in parallel / Max. 34.4 kWh
- 0.5C Maximum charge & discharge rate , i.e. approx. 3kw charge & discharge power each module.



# Intelligent Control

## Intelligent Energy Management System

- Maximize PV self-consumption
- Export control from 0 to 5kW
- Remote batch control/micro-grid
- Programmable charge and discharge control
- Flexible battery reserve from 0 to 100% for UPS



# Long Lifespan



## Long Life Time and Service

- Premium metal can battery cell
- Safest and longest life battery chemistry LFP
- Multi-level software and hardware protection
- Easy and flexible for installation and maintenance



Product Warranty



Battery Perf. Warranty  
Without Cycle-life Limitation



Estimated Life Time

# Essential Load Protected



➤ **Uninterrupted Power Supply**

Your essential loads are protected at all time. No need to worry about power outage any more.

➤ **Slim**

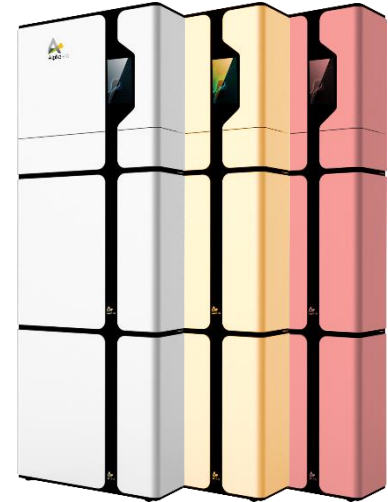
Elegant & Slim design takes little space  
Flexibility in installation location

➤ **IP65**

Indoor & Outdoor where-ever you want to

➤ **Plug & Play**

Integrated cable box with all the DC and AC isolators wall-mounted, no additional isolators needed, cost saving and truly Plug & Play!







**Thank You!**