



**Alpha·ESS**  
your smart energy

### 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.



**ELECTRICAL SOLUTIONS**

**McNae Electrical Solutions Ltd**

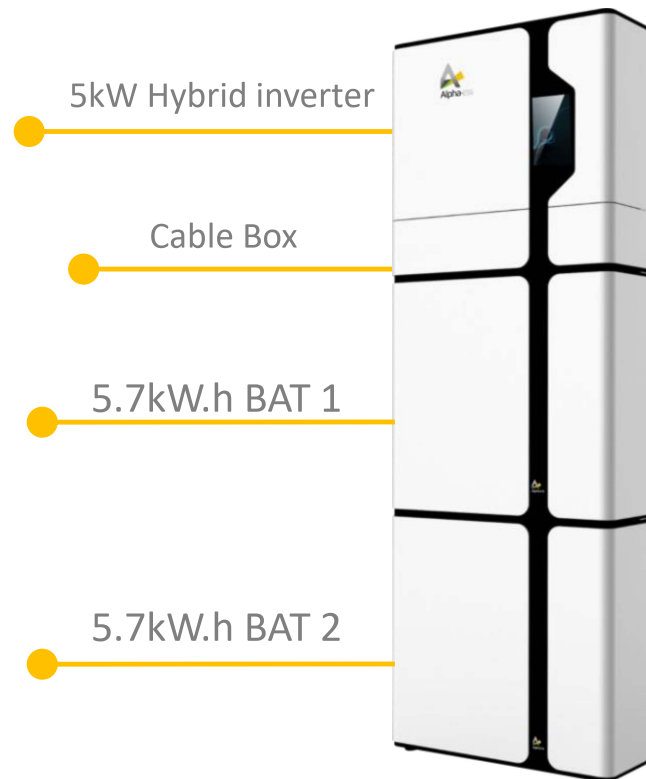
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## ALPHAESS SMILE5



### 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).

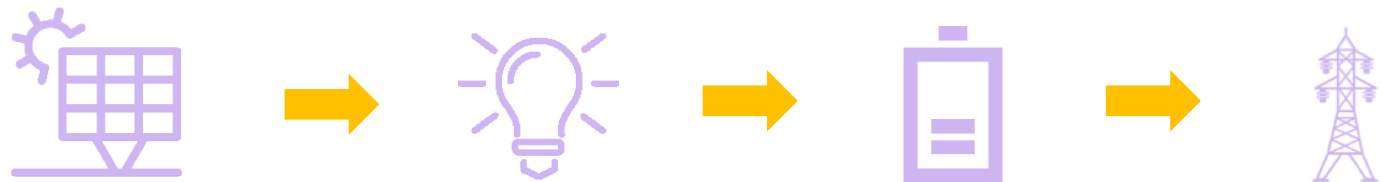
# Self-Sufficient



## Generate - Use - Store

Making your own generated solar energy available day and night.

### Solar Generation



### Load Consumption



# Modular Battery

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## 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

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➤ **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!

