




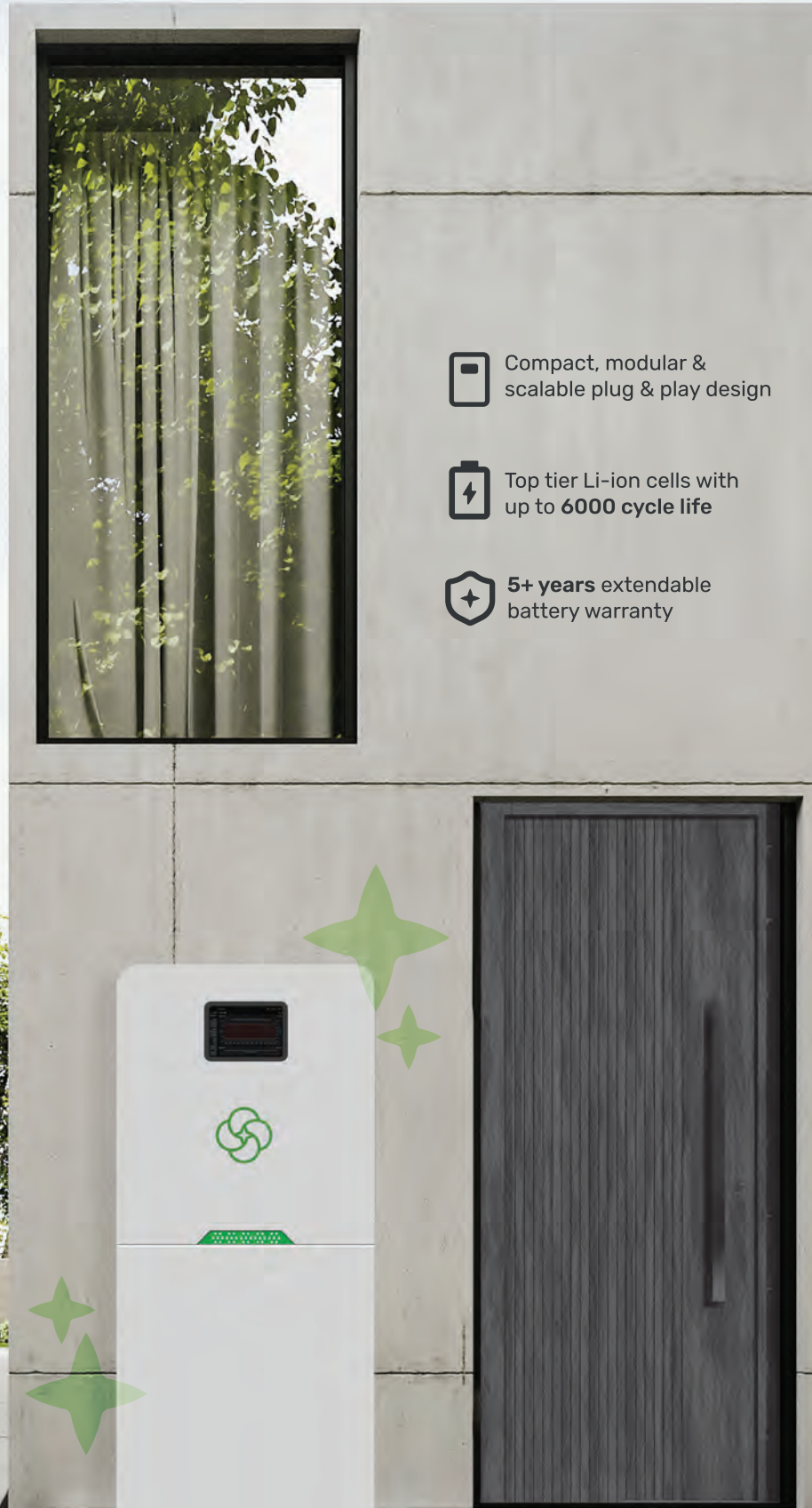
AH-RESI™

Series of Residential Battery Energy Storage System (BESS)

 Compact, modular & scalable plug & play design

 Top tier Li-ion cells with up to **6000** cycle life

 **5+ years** extendable battery warranty





MODEL

RESI-55 (5kVA / 5 kWh)

The AH-RESI series is a set of intelligent Battery Energy Storage Systems (BESS) built using best in class Lithium Iron Phosphate (LFP) battery cells, for maximum safety and longevity.

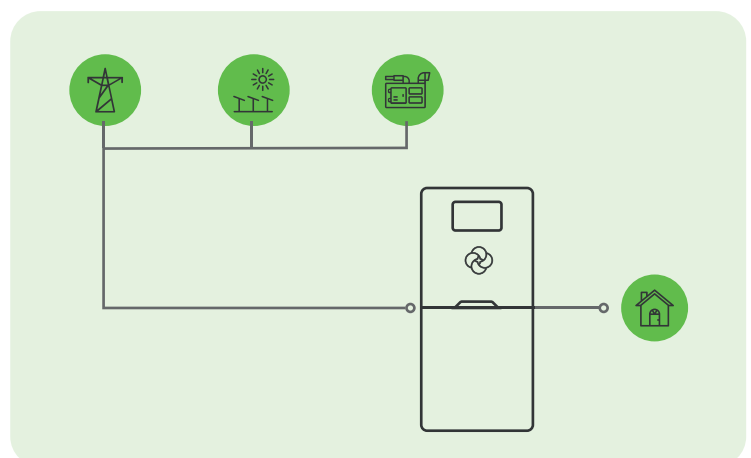
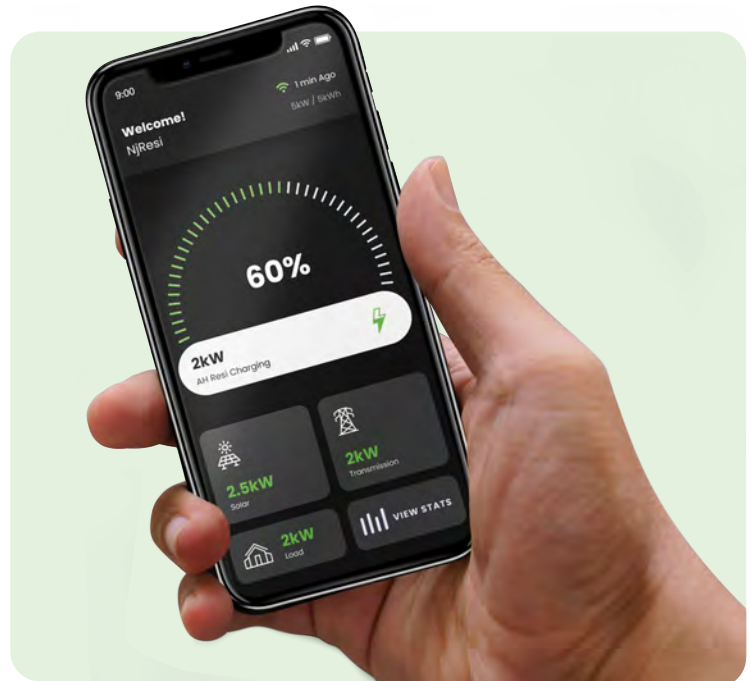
AH-RESI contains built in inverters and MPPTs, allowing DC charging from solar power in addition to AC charging from the grid, diesel generators or any other AC source.

The system is modular and easily expandable by adding power or energy modules in steps of 5kW / 5kWh, to create the system size of your choice.

With its compact design and “plug & play” architecture, AH-RESI is an ideal choice for residential and small commercial power backup applications.

KEY FEATURES

- Compact, plug and play design
- Integrated MPPTs for DC solar charging
- Off-grid operation capability with solar
- Priority settable for grid, solar & battery
- Highly safe to use, compliant with NFPA and IEC 62933 standards
- Laser welded LFP cells with >94% DC efficiency
- Long life up to 6000 cycles
- Wall / Stand mounting options
- Inbuilt HMI to view system information
- Mobile app for remote monitoring



TECHNICAL SPECIFICATIONS

INPUT

Voltage 230 VAC	Voltage Range 110 – 280 VAC	Frequency Range 50 Hz / 60 Hz (Auto sensing)
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SINGLE PHASE

Rated Power
5 kVA / 5 kWh

ENVIRONMENTAL CONDITIONS

Humidity 5% - 90%	Ambient Temperature 10°C to 45°C	Operating Temperature 10°C - 50°C
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PHYSICAL DETAILS

Net Weight
90 kg

Dimensions (mm)
250D x 550W x 1200H

BATTERY

Depth of Discharge (DOD)
90%

Floating Charge Voltage
54 VDC

Battery Type
LFP

Overcharge Protection
66 VDC

Ampere Rating
100Ah

Battery Cycles
6000

Battery Voltage
48 VDC

MOUNTING ARRANGEMENT

Wall or Stand mounted

PV & AC INPUT

Solar charging Type
MPPT

Max PV Charge Current
80A

Max PV array power
4000W

MPP Range @ Operating Voltage
60- 115VDC

Max AC Charge current
60A

OUTPUT

AC Voltage Regulation
230 VAC + 5%

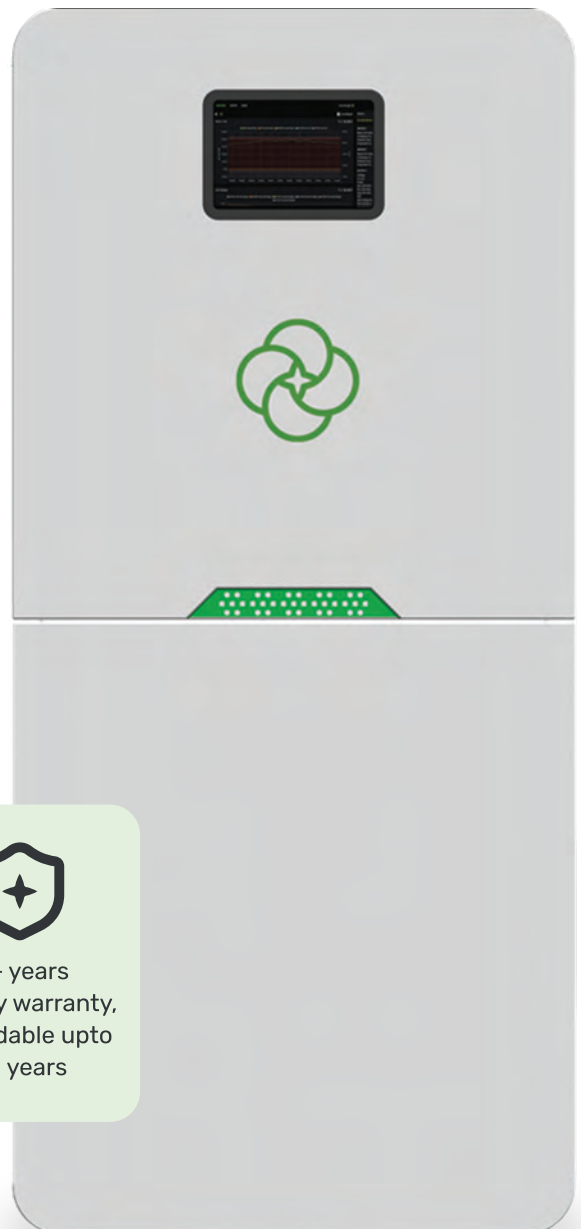
Efficiency (Peak)
**98% Line Mode,
90% Battery Mode**

Output THDv
**>than 3% for linear load,
<8% for non-linear load**

Waveform
Pure sine wave

Surge Power
10 kVA for 5 sec.

Transfer Time
10 ms



5+ years
battery warranty,
extendable upto
10 years

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amperehour