

SunESS H

Safe and Reliable

- 8 temperature sensors provide efficient coverage for 16 cells.
- Realtime Voltage and Temperature monitoring & active protection.

Energy Optimization

- Built-in DCDC energy optimizer, active inter-module balancing.
- lifecycle-compatible mixing of old and new modules without accelerated aging.

Flexible Expansion

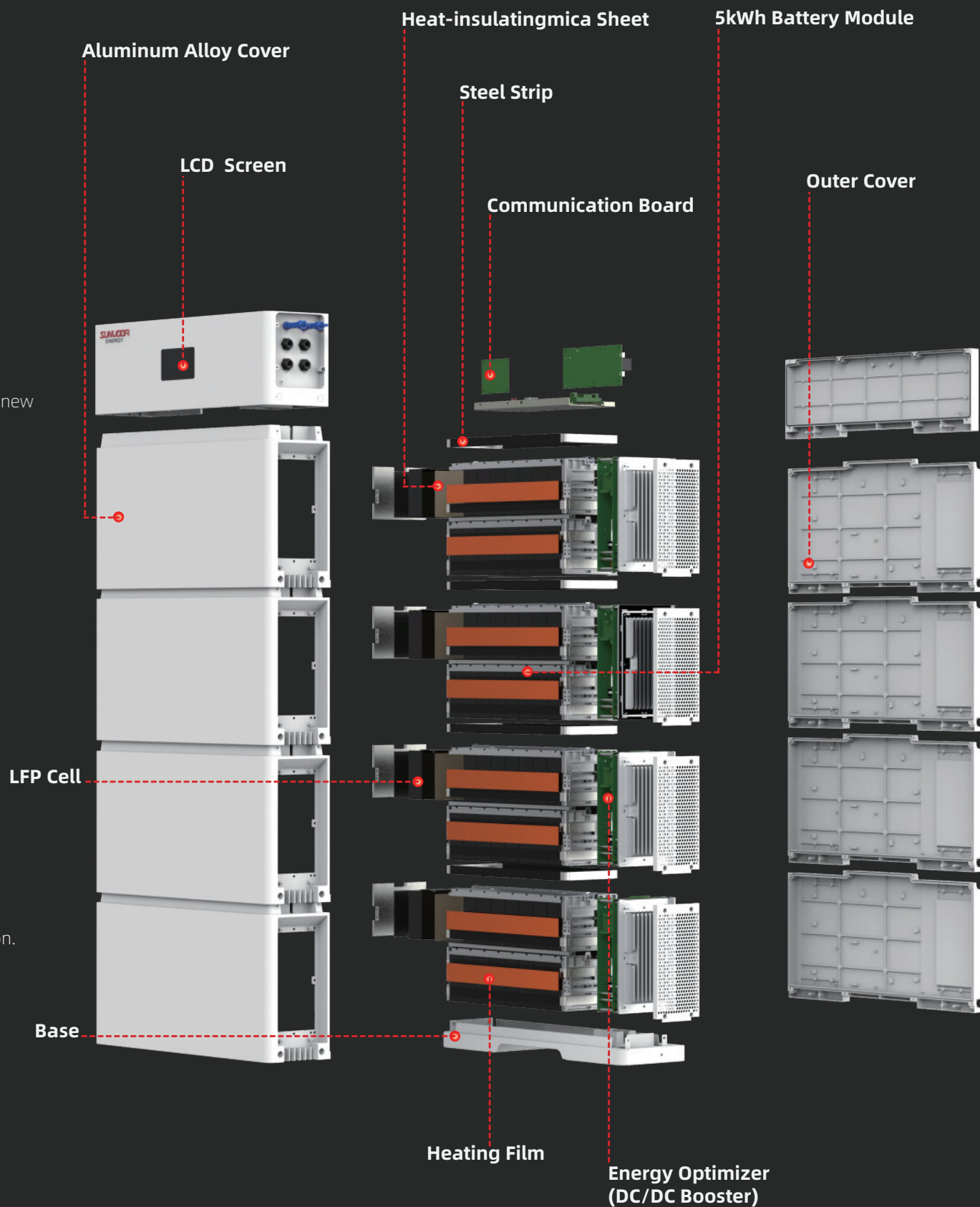
- Different SOCs can be mixed and used directly without reducing capacity.
- Plug-and-play design for quick, wiring-free installation.

Excellent Performance

- Each battery pack has a rated power of 2.5 kW.
- Peak power of up to 4.2 kW.

Intelligent Application

- APP & Web smart monitoring and remote maintenance.
- Features an upgrade reminders function.



Highlights

-20°C

Battery heating technology, -20°C extreme environment operation.

IP65

Rated for indoor and outdoor use.

4.2kW

Peak output power reaches 4.2 kW for 20s.

5~60kWh

Supports parallel capacity expansion.

10 Years

10-year warranty.

Mixed use

Mixed use of new and old batteries throughout their entire lifecycle.



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| Case Sharing



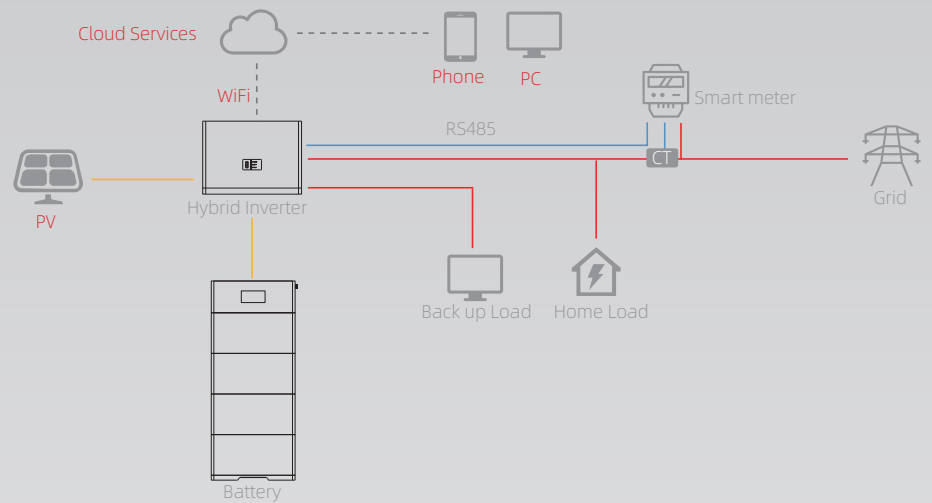
Sweden
SunESS H & Solinteg
10kw/15kwh
RESS Stackable SunESS H system
RESS for Residential Building



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10kw/15kwh
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Portugal
SunESS H
30kW/40kwh
RESS Stackable SunESS H system
RESS for energy consumption



| SunESS H

Model	SunESS-5H	SunESS-10H	SunESS-15H	SunESS-20H
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90% DOD) ¹	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	400V	400V	400V	400V
Operating voltage range	350V~450V	350V~450V	350V~450V	350V~450V
Rated charge/discharge power ²	2.5kW	5kW	7.5kW	10kW
Peak output power	4.2kW/20s	8.4kW/20s	12.6kW/20s	16.8kW/20s
Communication interface	CAN 2.0/RS485			
DC disconnect	Circuit breaker, 50A, 1000V rating			
Scalability ³	Max. 3 in parallel, Max. 60 kWh			

Operating conditions	
Installation location	Outdoor or indoor
Ambient Temperature ⁴	-4°F to 122°F (-20°C to 50°C)
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D, mm)	653*(553/868/1183/1498)*189
Weight	65kg/117kg/169kg/221kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Noise emission	< 29dB
Warranty	10 year ⁵
Certifications	IEC62619/CE/UN38.3/VDE 2510-50/CEI 0-21/FCC/UL1973

- 1.Test conditions: 90% DOD, 0.2C charge & discharge at 25°C.
2.The power is affected by temperature and SOC.
3.Optional Data box supports three-cluster parallel operation, refer to the user manual for details.
4.Low-temperature operation requires the inverter to respond battery's heating requests.
5.For warranty instructions, please refer to the warranty terms.

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