

# SunESS H

Smart Stacked Energy Storage System



## Features



Safe and Long-Life  
LiFePO<sub>4</sub> (LFP) Technology



Built-in Protection  
Features



High Voltage (~400V)  
Enabled by Built-in DC-DC



Optimized For Both Grid-  
Tied and Off Grid Application



Versatile Configuration  
(5–60kWh), Mixed Use of  
Old and New, Upgrade at  
Any Time



Supported By Market-  
leading PV-hybrid or  
Battery-only Inverter  
(More Than 10 Brands)



Built-in Display



Built-in Wi-Fi

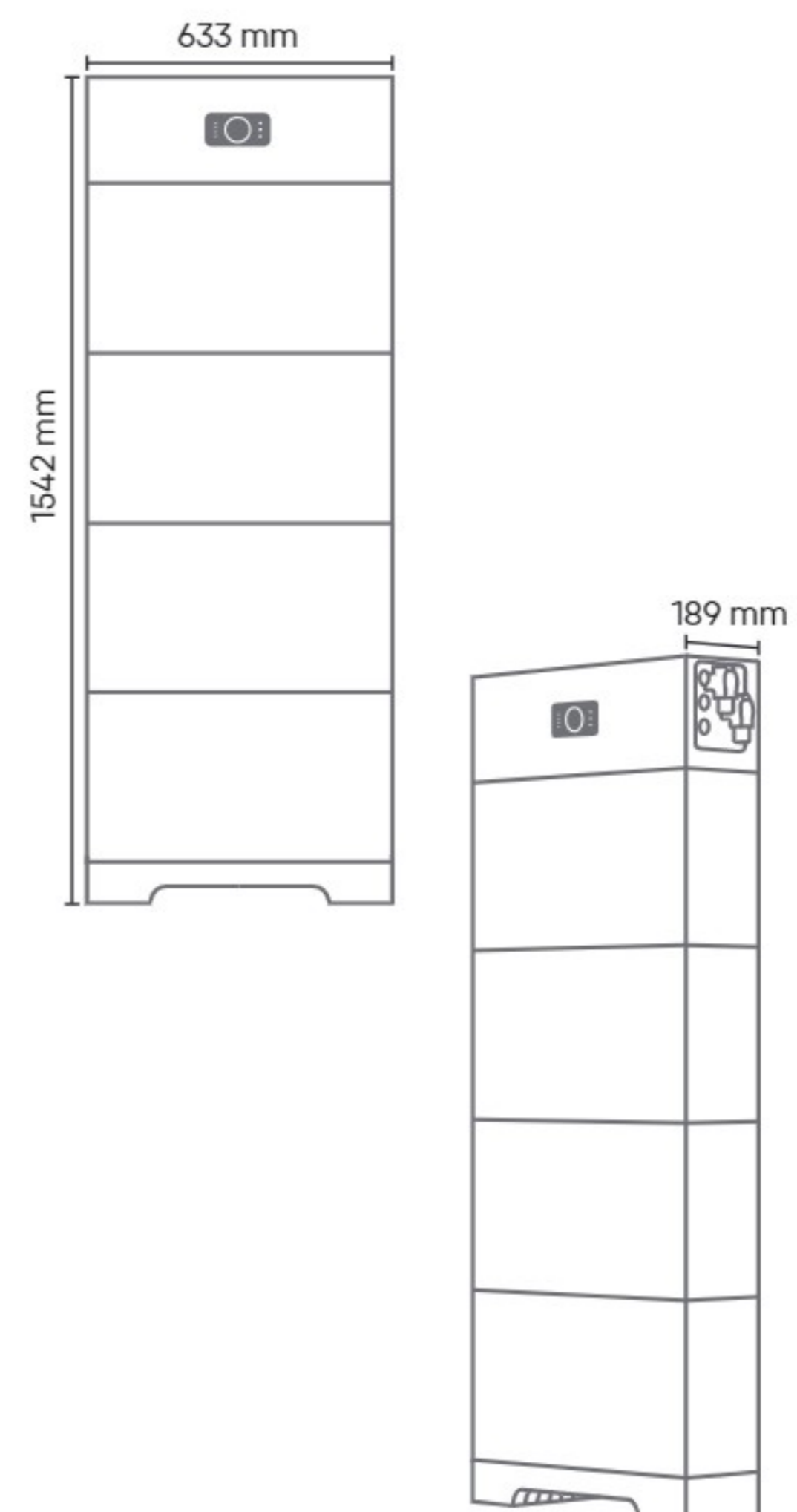


## Electrical Characteristics

Model	SunESS 5H	SunESS 10H	SunESS 15H	SunESS 20H
Nominal Energy	5kWh	10kWh	15kWh	20kWh
Usable Energy 90% DOD	4.5kWh	9kWh	13.5kWh	18kWh
Rated Voltage	409.6V	409.6V	409.6V	409.6V
Charge/Discharge Cut Off Voltage	350V~450V	350V~450V	350V~450V	350V~450V
Roundtrip Efficiency	>95%	>95%	>95%	>95%
Rated Charge/Discharge Power	2.5kW	5kW	7.5kW	10kW
Max. charge/Discharge Power	3.5kW@10s	7kW@10s	10.5kW@10	14kW@10s
Communication Interface	CAN 2.0/RS485/WiFi/LAN			
DC Disconnect	Circuit Breaker, 50A, 410V Rating			
Connection Method	Quick Plug And Unplug Terminals			
User Interface	Display Battery Running Status, SOC, Alarm Information, Wifi Status, Heater Status, etc.			
Protection Features	Charging Overvoltage Protection, Discharge Under-voltage Protection, Over Current Protection, Short Circuit Protection, High and Low Temperature Protection, DC Reverse Polarity Protection, etc			
Scalability	Max. 3 in Parallel, Max. 60 kWh			

## Operating Conditions

Installation Location	Outdoor or Indoor
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Operating Temperature (Recommended)	59°F to 86°F (15°C to 30°C)
Storage Temperature	-22°F to 140°F ( -30°C to 60°C)
Humidity	10% to 95%,non condensation
Dimensions (W*H*D,mm)	633*(597/912/1227/1542)*189
Weight	65kg,115kg,165kg,215kg
Enclosure Rating	IP55
Altitude	<2000m
Cooling	Natural Convection
Warranty	5 Years
Inverter	Refer to Inverter Compatibility List by Luminey



## Certificates

Safety	IEC62619/CE/UL1973
Transportation	UN38.3

