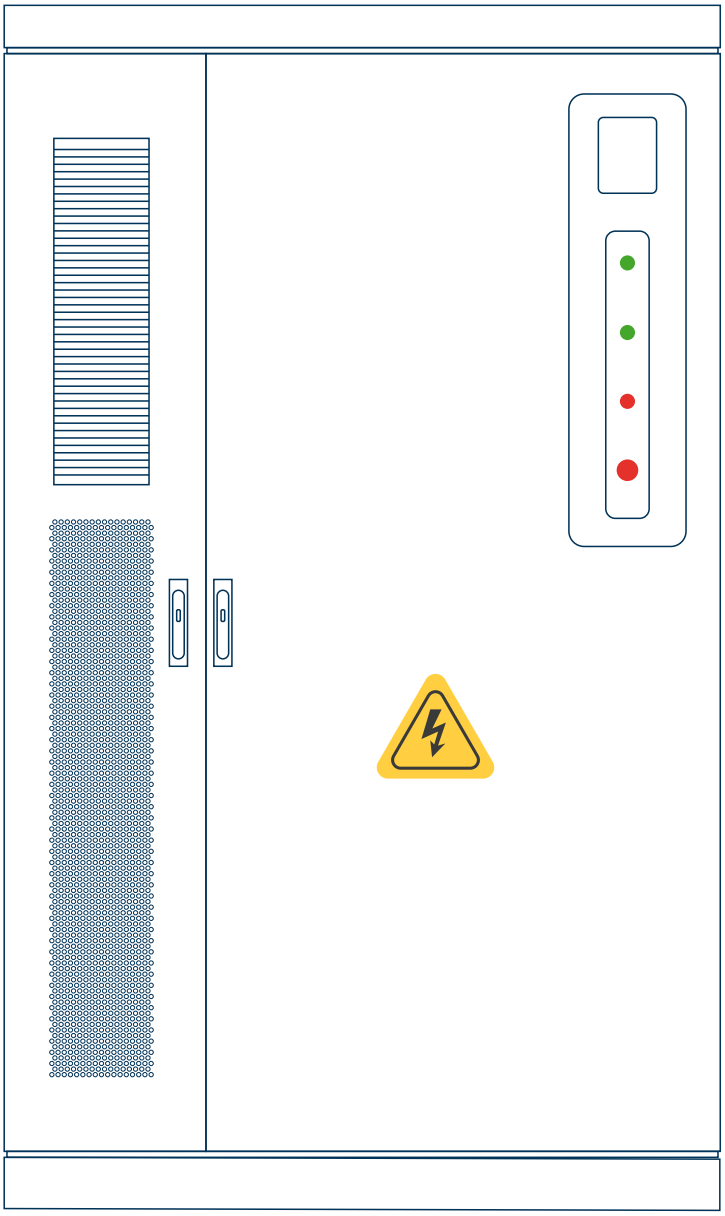
SUNLIGHT

Technical
Datasheet

Smart Energy for Commercial & Industrial Applications



powerESS HV

sunlight-group.com

ESS HV | 100kW/233kWh-400VAC

Features

Safe & Reliable

No battery parallel connection for system safety

Multi-level protection to ensure circuit loop cutoff & isolation

Flexible & Scalable

Intelligent liquid cooling with higher energy density & balanced temperature

Modular design supporting multi-unit connection, easy for capacity expansion

Cost Savings

All-in-one design, highly integrated for easy transportation and O&M

Fully pre-assembled, no battery module installation on site

Intelligent Management

Intelligent platform supporting efficient operation monitoring, energy management & remote upgrade

Product Specifications

System Model	ESS HV | 100kW/233kWh-400VAC
Battery Parameters	
Rated Capacity	233 kWh
Rated Voltage DC	832 V
Battery Type	LFP (from CATL)
Cell Specification	3.2 V 280 Ah
System Battery Configuration	1P52555
AC Parameters	
Rated Power	100 kW
Max. Output Power	110 kW
Rated Voltage AC	400 V, 3W+PE
Rated Frequency AC	50/60 Hz
Max. THD of Current	< 3% (at nominal power)
Power Factor	–1...+1
General Data	
Protection Level	IP55
Inverter Topology	Non-isolated
Operating Temperature Range	–20°C...+55°C (derating @ > 45°C)
Cooling Method	Air cooling (PCS), Liquid cooling (Battery)
Altitude	2000 m
Communication Protocols	Modbus, TCP/IP
Dimensions (WxDxH)	1400x1350x2100 mm
Weight	~2700 kg
Standard	EMC, IEC 62619, EN 50549, G99, VDE4105, CEI016, CEI021, AS4777.2, C10/11, UL9540A, UN38.3

**Subiect to actual delivery*