Commercial Solutions

High Voltage Range - Outdoor Battery Storage









The Solar MD Outdoor Battery Storage Solution is one of the most flexible solutions available on the market. It features four side mounting plates, allowing for the installation of equipment tailored to individual requirements.

This cabinet is **compatible with any hybrid inverter** designed to work with Solar MD batteries, offering users the freedom to customize their setup. Additionally, a range of add-on solutions is available, including preconfigured PCS, MPPT, STS, and other products, providing enhanced versatility and functionality.

Features



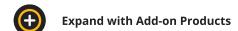






Built-In Fire Protection Features











Technical Data



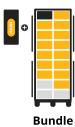
HV - Outdoor Battery Storage Solution

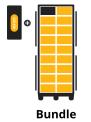
Cell Chemistry	Lithium Iron Phosphate (LiFePO4)		
Cell Manufacturer	CATL		
Capacity Range	71.5 - 243.1 kWh		
Operational Voltage (min/max)	224 - 952 V		
Number of battery modules	5 - 17 pcs (SS6143 Modules)		
Battery Rack	CB52x_HV-H9-R2		
Cell Certification & Standards	IEC 62619 / UN38.3 / UN3480/ UL1642/ CE		
Cycle Life @25°C	≥6000		
Recommended depth of discharge (DoD)	90%		
Cabinet Round Trip Efficiency	> 93% (Battery Only)		
Cabinet Ambient Temperature	-10°C to 50°C (-30°C on request)		
Cabinet Thermal Insulation	Rockwool		
Protection Class	IP65		
Cabinet Safety Standard	IEC 62933-5-2:2020		
Battery Safety Standard	CE / EN 55016 / IEC 61000		
	Fire Pro (Eco Friendly - K2 CO3)		
Climatization	Air Conditioner		
Energy Management System	mypower24 Plant Controller		



Add on PCS Bundles









S	ita	ndal	lone
71	5 -	243	1kWh

100kW / 200.2kWh

125kW / 243.1kWh

powered by SMA 50kW / 157.3kWh

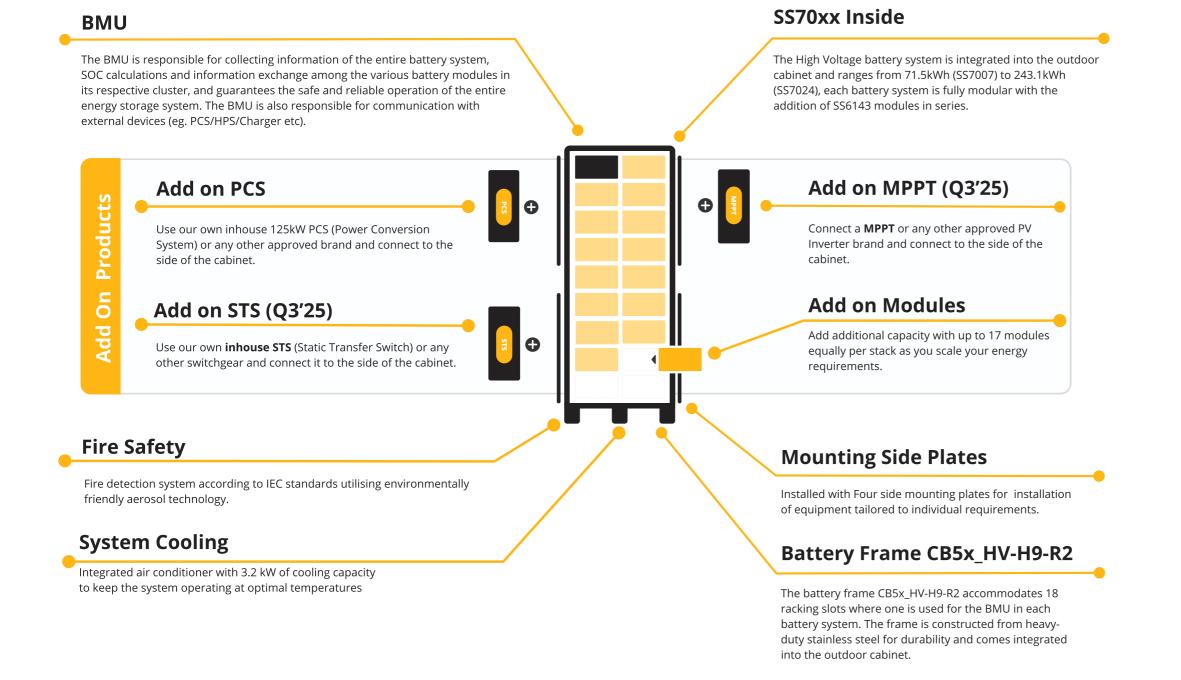
DC Parameters				
Battery voltage operating range	224 - 952 V	627.2 - 784 V	761.6 - 952 V	492.8 - 616 V
Number of battery modules	5 - 17 pcs	14 pcs	17 pcs	11 pcs
PCS voltage operating range	-	580-1000V	580-1000V	200 - 980 V
PCS Maximum charge - / discharge current	-	200A	200A	150 A
AC Parameters				
Rated charge/discharge power	-	100kW	125 kW	50 kW
Maximum charge/discharge power	-	110kW	150 kW	50 kW
Rated grid voltage	-	400V	400V	400V
Rated grid frequency	-	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Topology	-	Three-phase / Transformerless	Three-phase / Transformerless	Three-phase / Transformerless
Connection Lines	-	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency				
Maximum efficiency	-	98.9%	98.9%	98.0 %
Protection				
Surge protection	-	AC: Type II	AC: Type II	DC: Type II / AC: Type III
PCS Parameters				
Weight	-	58kg	58kg	104 kg
Ambient	-	-40°C - 60°C	-40°C - 60°C	-25 - 60°C
Communication type	-	Ethernet, RS485, CAN	Ethernet, RS485, CAN	Ethernet, CAN, Speedwire, RS485
PCS Warranty Period	-	3 Years	3 Years	5 + 5 Years
Cabinet Parameters				
Dimensions	1248mm x 1112mm x 2623mm			
Weight	2178.8 kg fully loaded (149kg empty)			
Battery rack	CB52x_HV-H9-R2	CB52x_HV-H9-R2	CB52x_HV-H9-R2	CB52x_HV-H9-R2
Ambient Temperature	-10°C to 50°C (-30°C on request)			
EMS	mypower24 Plant Controller	mypower24 Plant Controller	mypower24 Plant Controller	mypower24 Plant Controller
Protection class	IP65	IP65	IP65	IP65
Cooling	Air Conditioner	Air Conditioner	Air Conditioner	Air Conditioner
Fire Safety	Fire Pro (Eco Friendly - K2 CO3)			



Variations

The Solar MD Outdoor Cabinet solution is available in a **standalone version**, accommodating between **5x and 17x SS6143 modules**, offering energy storage capacities ranging from **71.5 kWh to 243.1 kWh**. This configuration is compatible with any suitable hybrid inverter, making it a versatile choice for various energy applications.

In addition to the standalone cabinet, Solar MD offers exclusive **bundled add-on products** that further enhance system capabilities. These bundles include **pre-configured solutions such as PCS (Power Conversion Systems), MPPT (Maximum Power Point Trackers), STS (Static Transfer Switches)**, and other innovative products, all designed to integrate seamlessly with the Solar MD Outdoor Cabinet for a comprehensive energy solution.



Applications

- Back-Up Power
- Commercial & Residential UPS Systems
- Charger Systems
- Off-Grid Electricity Supply
- Peak Shaving
- High Voltage Battery Inverter

Monitoring & Control

The High-Performance Logger V2 and mypower24 management platform are seamlessly integrated into our cabinet solution for efficient energy management. The Logger V2 enables fast communication via multiple interfaces (CAN Bus, RS232, RS485, Ethernet, Wi-Fi) and supports programmable relays, digital/analogue inputs/outputs, and device compatibility with inverters, energy meters, and weather stations. mypower24 compliments it with real-time data insights, secure remote management, and centralised control of energy infrastructure.



































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