

# SS4083

8.3 kWh Advanced LiFePO4 Battery



Guarantee on Product  
Material & Workmanship



Energy Output  
Warranty

Our SS4083 lithium iron phosphate battery system boasts a modular design which can be wall or floor mounted. You can easily scale its capacity by connecting multiple units in parallel, making it ideal for various applications.

## Features



**High efficiency**



**High energy density**



**Long life cycle**



**Stable discharge platform**



**Green technology**



**High temperature performance**



**Excellent safety**



**High charge & discharge rate**

## Applications



Off-Grid Systems



Hybrid Systems



Grid Tied Systems



Charger Systems



Residential UPS Systems



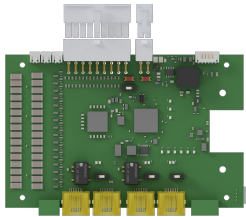
Commercial UPS Systems



### SS4083

Cell Chemistry	Lithium Iron Phosphate (LiFePO4)
Cell Manufacturer	CALB
Rated Capacity	8.3 kWh
Nominal Power @0.7C	7.5 kW
Nominal Voltage	51.2V
Operational Voltage	44.8 - 55.6Vdc
Max Charge & Discharge Current	150A
Cycle Life @25°C	≥4000
Charging Efficiency	99%
Operational Temperature	0°C to 50°C
Communication	CANBUS / RS485
Weight per module	70kg
Dimensions (W x D x H)	389mm x 186mm x 631mm
Storage Duration	6 months @25°C
Safety Standard Compliance	CE / EN 55016 / IEC 61000
Cell Certificate	IEC 62619 / UN38.3 / UN3480 / UL 1642 / UL 1973

# Battery Management System

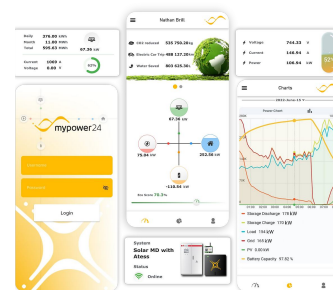
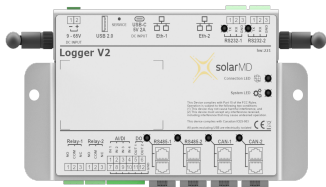


Each Solar MD battery has its own Battery Management System (BMS) designed and built in-house. The BMS handles the internal functions of each battery. In setups with multiple batteries, the BMS independently manages each one, ensuring a stable energy flow throughout the battery system.

- Data collection & storage for monitoring
- Efficient charging & discharging control
- Precise cell voltage measurement
- Built in temperature sensors & external sensor inputs
- Voltage management to prevent damage
- Cell balancing for extended lifespan
- SOC Calculation & Control
- CANBUS & RS485 Communication
- CE / IEC61000
- 2x Programmable Isolated Outputs

# Monitoring & Control

The EMS integrates seamlessly with various brands and devices, including energy meters, generators, chargers, and inverters. This capability enables real-time adjustments to energy consumption and production, empowering you to make informed decisions for optimal system management. Regular reports provide insights into energy consumption, cost savings, and environmental impact.



## Logger V2 (The Device)

The High-Performance Logger V2 offers easy and fast communication with automatic device discovery and connection.

- **Interfaces** include CAN Bus, RS232, RS485, Ethernet, and Wi-Fi (client and station).
- Integrated **programmable relays**, digital inputs, digital outputs, analogue input, analogue output for load control.
- **Communicates with** supported inverters, energy meters, weather stations, and other energy devices.

## mypower24 (The Platform)

mypower24 is a comprehensive management platform designed to simplify and centralise the control of your energy devices. Seamlessly integrating with your Logger V2, mypower24 offers a robust suite of features that effectively manage and optimise your energy infrastructure:

- **Real-Time Data & Insights:** Gain valuable insights into your energy usage with real-time data visualisation and historical records.
- **Safe & Secure:** High-security standards via certified authentication and encrypted data transfer.
- **Convenient Remote Management:** Remotely manage your system & devices for maximum efficiency.



## Contact Us



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