

LITHIUM BATTERIES

CATL Battery L051100-A

5.12kWh / 51.2V / 100Ah (Connection cable included)

L051100-A

Sunsynk have produced a perfect storage solution. The module consists of Lithium-ion rechargeable batteries with 5.12kWh capacity rated at 51.2V 100Ah with built-in battery management system.

- **Long Life Span**

The battery can be expected to remain serviceable for more than 10 years and this takes into consideration that it is charged and discharged once a room temperature (25°C).

- **Stable**

Olivine Lithium-ion phosphate batteries provide excellent thermal stability and storage. The module also incorporates a self-monitoring function for the detection of any abnormalities in power storage.

- **Compact Design**

The height is nicely designed as per standard industrial rack size (3U).

- **High Scalability**

Multiple energy storage modules can be connected in parallel and the capacity customised according to the intended usage.



Power Lite Lithium Battery System L051100-A	
Cell Type	Lithium Ferro Phosphate (LifePO4 or LFP)
Nominal Operating Voltage	51.2V
Nominal Capacity	100Ah / 5.12kWh
Depth of Discharge (DoD)	100%
Usable Capacity	5.12kWh
Packing	1P16S
IP Rating	IP40
Minimum Operating Voltage	44.8V
Maximum Operating Voltage	57.6V
Standard Charging Current	50A
Max. Continuous Charging Current	50A
Standard Discharging Current	50A
Max. Continuous Discharging Current	100A (1C, 25°C ± 2°C)
Max. Pulse Discharging Current	200A (2C, 30S, 25°C ± 2°C SOC≥40%)
Standard Charging Method	0.5C CC to 57.6V, CV at 57.6V till current is 0.05C
Min. Operating Temperature (no derating)	Charging: 0°C / Discharging: -20°C
Max. Operating Temperature (no derating)	Charging: 50°C / Discharging: 55°C
Operating ROH	20% ~ 80%
Storage Temperature	-20 ~ 50°C
Self-discharging rate	≤5% (25°C, 50% SoC)
SoC @ end of product line	40%
Insulation Resistance	>100MΩ
Voltage Difference in each module	≤20mV
Inner Resistance of single Cell	0.34 ± 0.05mΩ (fresh cell 30 ~ 40% SoC)
Altitude	Below 2000m
Weight	48kg
Dimensions	440 x 530 x 132mm (not include connector, MSD and other parts)
Expected Life @ 25°C	Greater than 10 years if used as per warranty terms