



Kokam Battery Module

KBM SERIES MODULE

KBM216 14S

Kokam's Battery Modules designed to accommodate cells with different capacities and can easily be tailored to meet diverse energy, voltage, and power requirements.



Meet Various Needs of Customer's Technical Requirement

Modularity :

Standardized structure of the KBM module enables quick and easy connection; both serial and parallel. It can be configured to make a system of 1.2 kWh to MWh-scale ESS.

Maintenance :

Each module is built as an independent tray which allows effective and sufficient handling when maintenance is required.

Air Ventilation :

Cells within the modules are maintained at optimal temperatures to enable a longer life cycle. Optional heat sink plate can be provided to cool electronic components and increase thermal capability.



◀ KBM 216 14S - 2.7kWh

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More than 31 years of experience at your service

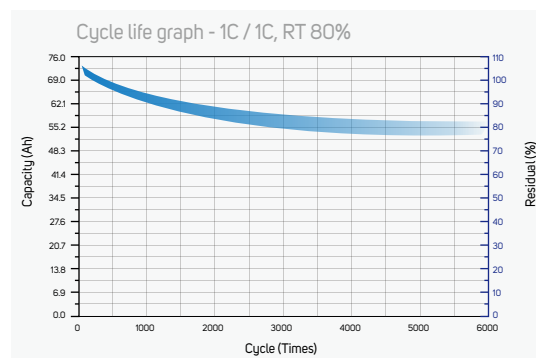
Customization for various applications

Specification

| Item | Value | | Remark |
|-----------------------------------|-----------|----------------------|------------------------------|
| Cell Capacity | 40 Ah | 53 Ah | SLPB100216216H/ 120216216 |
| Energy | 2.07 kWh | 2.74 kWh | @ C/5 discharge 23± 3°C |
| Weight (Approx.) | 19.0 kg | 22.0 kg | |
| Minimum Voltage | 42.0 V | | |
| Nominal Voltage | 51.8 V | | |
| Maximum Voltage | 58.8 V | | |
| Max. Continuous Charge Current | 40A (1C) | 53A (1C) | @ 23± 3°C |
| Max. Continuous Discharge Current | 40A (1C) | 53A (1C) | |
| Peak Discharge Current | 120A (3C) | 159A (3C) | < 10sec, > SOC 50% |
| Module Dimension | Width | 9.64 inch (245 mm) | |
| | Height | 11.22 inch (285 mm) | |
| | Depth | 8.03 inch (204.2 mm) | |
| Available Operating Temperature | Charge | 0 ~ 10 °C | |
| | | 10 ~ 30 °C | |
| | | 30 ~ 40 °C | |
| | Discharge | -10 ~ 55 °C | |
| Available Storage Condition | 1 year | -20 ~ 25 °C | |
| | 3 months | 25 ~ 40 °C | |
| | <1 week | 40 ~ 55 °C | |
| | | | @ 60± 25% R.H. SOC 50± 5% |

Key Features

- Battery Management System is included in each module.
- Each module is equipped with a 14 channel voltage sensor and temperature sensor.
- Each module can be connected in serial and parallel to comprise a capacity of multi MWh scale.
- Optimum temperature for battery operation is achieved by incorporating additional spaces between individual cells for ventilation.



KBM216 Specification

| Cell Type / Capacity (Ah) | Connection Type | Energy (kWh) | Min. Voltage (V) | Nominal Voltage (V) | Max. Voltage (V) | Weight (kg) | Dimension (WxDxH) (mm) |
|---------------------------|-----------------|--------------|------------------|---------------------|------------------|-------------|------------------------|
| SLPB60216216 / 25Ah | 13S | 1.20 | 39.0 | 48.1 | 54.6 | 12.5 | 245 x 191.4 x 285 |
| | 14S | 1.29 | 42.0 | 51.8 | 58.8 | 13.5 | 245 x 204.2 x 285 |
| SLPB78216216 / 31Ah | 13S | 1.49 | 39.0 | 48.1 | 54.6 | 15.0 | 245 x 191.4 x 285 |
| | 14S | 1.60 | 42.0 | 51.8 | 58.8 | 16.0 | 245 x 204.2 x 285 |
| SLPB100216216 / 40Ah | 13S | 1.92 | 39.0 | 48.1 | 54.6 | 17.5 | 245 x 191.4 x 285 |
| | 14S | 2.07 | 42.0 | 51.8 | 58.8 | 19.0 | 245 x 204.2 x 285 |
| SLPB120216216 / 53Ah | 13S | 2.40 | 39.0 | 48.1 | 54.6 | 20.0 | 245 x 191.4 x 285 |
| | 14S | 2.74 | 42.0 | 51.8 | 58.8 | 22.0 | 245 x 204.2 x 285 |



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Meet Various Needs of Customer's Technical Requirement

Modularity :

Standardized structure of the KBM module enables quick and easy connection; both serial and parallel. It can be configured to make a system of 1.2 kWh to MWh-scale ESS.

Maintenance :

Each module is built as an independent tray which allows effective and sufficient handling when maintenance is required.

Air Ventilation :

Cells within the modules are maintained at optimal temperatures to enable a longer life cycle. Optional heat sink plate can be provided to cool electronic components and increase thermal capability.



◀ KBM 216 2P 14S - 5.5kWh

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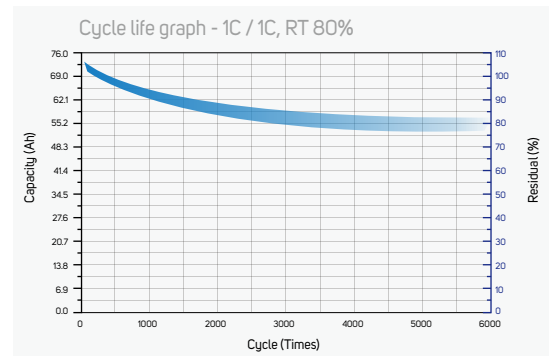
Customization for various applications

Specification

| Item | Value | Remark | | |
|-----------------------------------|-----------|--------------------------|-------------|------------------------------|
| Cell type | 53 Ah | SLPB100216216H/120216216 | | |
| Energy | 5.5 kWh | @ C/5 discharge 23± 3°C | | |
| Weight (Approx.) | 41.5 kg | | | |
| Minimum Voltage | 42.0 V | | | |
| Nominal Voltage | 51.8 V | | | |
| Maximum Voltage | 58.8 V | | | |
| Max. Continuous Charge Current | 106A (1C) | @ 23± 3°C | | |
| Max. Continuous Discharge Current | 106A (1C) | @ 23± 3°C | | |
| Peak Discharge Current | 318A (3C) | < 10sec, > SOC 50% | | |
| Module Dimension | Width | 9.64 inch (245 mm) | | |
| | Height | 10.96 inch (278.4 mm) | | |
| | Depth | 15.59 inch (395.9 mm) | | |
| Available Operating Temperature | Charge | 0 ~ 10 °C | < 0.3C | |
| | | 10 ~ 30 °C | ≤ 2.0C | |
| | | 30 ~ 40 °C | < 1.0C | |
| Available Storage Condition | Discharge | -10 ~ 55 °C | | |
| | | 1 year | -20 ~ 25 °C | @ 60± 25% R.H. SOC 50± 5% |
| | | 3 months | 25 ~ 40 °C | |
| | | <1 week | 40 ~ 55 °C | |

Key Features

- Battery Management System is included in each module.
- Each module is equipped with a 14 channel voltage sensor and temperature sensor.
- Each module can be connected in serial and parallel to comprise a capacity of multi MWh scale.
- Optimum temperature for battery operation is achieved by incorporating additional spaces between individual cells for ventilation.



KBM216 Specification



| Cell Type / Capacity (Ah) | Connection Type | Energy (kWh) | Min. Voltage (V) | Nominal Voltage (V) | Max. Voltage (V) | Weight ¹⁾ (kg) | Dimension (WxDxH) (mm) |
|---------------------------|-----------------|--------------|------------------|---------------------|------------------|---------------------------|------------------------|
| SLPB60216216 / 25Ah | 2P 13S | 2.40 | 39.0 | 48.1 | 54.6 | 24.0 | 245 x 357.8 x 285 |
| | 2P 14S | 2.59 | 42.0 | 51.8 | 58.8 | 26.0 | 245 x 383.4 x 285 |
| SLPB78216216 / 31Ah | 2P 13S | 2.98 | 39.0 | 48.1 | 54.6 | 29.0 | 245 x 357.8 x 285 |
| | 2P 14S | 3.20 | 42.0 | 51.8 | 58.8 | 31.0 | 245 x 383.4 x 285 |
| SLPB100216216 / 40Ah | 2P 13S | 3.84 | 39.0 | 48.1 | 54.6 | 34.0 | 245 x 357.8 x 285 |
| | 2P 14S | 4.14 | 42.0 | 51.8 | 58.8 | 37.0 | 245 x 383.4 x 285 |
| SLPB120216216 / 53Ah | 2P 13S | 5.09 | 39.0 | 48.1 | 54.6 | 39.0 | 245 x 357.8 x 285 |
| | 2P 14S | 5.49 | 42.0 | 51.8 | 58.8 | 41.5 | 245 x 383.4 x 285 |