

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



More than 26 years of experience at your service

Customization for various applications

Specification

| ltem | Value | | | Remark | |
|--------------------------------------|-----------|------------|-----------------|------------------------------|--|
| Cell Capacity | 40 Ah | 53 Ah | | SLPB100216216H/ 120216216 | |
| Energy | 2.07 kWh | | 2.74 kWh | @ C/5 discharge 23± 3℃ | |
| 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) | | |
| Max. Continuous Discharge Current | 40A (1C) | | 53A (1C) | @ 23± 3 C | |
| Peak Discharge Current | 120A (| 3C) | 159A (3C) | < 10sec, > SOC 50% | |
| Module Dimension | Width | 9.64 | 1 inch (245 mm) | | |
| | Height | 11.2 | 2 inch (285 mm) | | |
| | Depth | 8.03 | inch (204.2 mm) | | |
| Available Operating Temperature | Charge | 0 ~ 10 °C | | < 0.3C | |
| | | 10 ~ 30 °C | | ≤ 2.0C | |
| | | 30 ~ 40 °C | | < 1.0C | |
| | Discharge | | -10 ~ 55 °C | | |
| Available Storage Condition | 1 year | -20 ~ 25 ℃ | | @ 60+ 25% P H | |
| | 3 months | 25 ~ 40 ℃ | | SOC 50± 5% | |
| | <1 week | | 40 ~ 55 ℃ | | |

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 |



DISCLAIMERS OF WARRANTIES

DISCUAIMENS OF WARHANTIES ALL MATERIALS AND SERVICES ON THIS DOCUMENT ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR THE WARRANTY OF NON-INFRINGEMENT. THIS DOCUMENT COULD INCLUDE TECHNICAL OR OTHER MISTAKES, INACCURACIES OF TYPOGRAPHICAL ERRORS. KOKAM ASSUMES NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE INFORMATION, DOCUMENTS, SOFTWARE, MATERIALS AND SERVICES WHICH ARE REFERENCED BY OR LINKED TO THIS DOCUMENT. KOKAM DOES NOT GRANT ANY EXPRESS OR IMPLIED RIGHT TO ANY PERSON OR BUSINESS ENTITY UNDER ANY PATIENTS, COPYRIGHTS, TRADEMARKS, OR TRADE SECRET INFORMATION WITH RESPECT TO THE MATERIALS AND SERVICES, NO PORTION OF THE INFORMATION OR DOCUMENTS MAY BE REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN CONSENT OF KOKAM. IN NO EVENT SHALL KOKAM BE LABLE TO ANY PERSON OR BUSINESS ENTITY FOR ANY SPECIAL, PUNITIVE, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES BASED ON ANY USE OF THIS DOCUMENT.



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.



battery@kokam.com www.kokam.com

KBM 216 2P 14S - 5.5kWh



More than 26 years of experience at your service

Customization for various applications

Specification

| ltem | | Value | Remark | | | |
|--------------------------------------|--------------------|-----------------------|------------------------------|--|--|--|
| Cell type | | 53 Ah | SLPB100216216H/120216216 | | | |
| Energy | | 5.5 kWh | @ C/5 discharge 23± 3℃ | | | |
| 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℃ | | | |
| Max. Continuous Discharge Current | | 106A (1C) | @ 23± 3℃ | | | |
| 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 ℃ | < 1.0C | | | |
| | Discharge | -10 ~ 55 °C | | | | |
| Available Storage Condition | 1 year | -20 ~ 25 ℃ | @ CO., 05% D.L. | | | |
| | 3 months | 25 ~ 40 °C | ₩ 00± 25% R.H. SOC 50+ 5% | | | |
| | <1 week 40 ~ 55 °C | | 220 002 070 | | | |

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.



CE

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 |



DISCLAIMERS OF WARRANTIES ALL MATERIALS AND SERVICES ON THIS DOCUMENT ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR THE WARRANTY OF NON-INFRINGEMENT. THIS DOCUMENT COULD INCLUDE TECHNICAL OR OTHER MISTRAKES, INACCIPACIES OR TYPOGRAPHICAL ERRORS. KOKAM ASSUMES NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE INFORMATION, DOCUMENT, SOFTWARE, MATERIALS AND SERVICES WHICH ARE REFERENCED BY OR LINKED TO THIS DOCUMENT KOKAM DOES NOT GRANT ANY EXPRESS OR IMPLIED RIGHT TO ANY PERSON OR BUSINESS ENTITY UNDER ANY PATENTS, COPYRIGHTS, TRADEMARKS, OR TRADE SECRET INFORMATION WITH RESPECT TO THE MATERIALS AND SERVICES. NO PORTION OF THE INFORMATION OR DOCUMENTS MAY BE REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE PROR WRITTEN CONSENT OF KOKAM. IN NO EVENT SHALL KOKAM BE LIABLE TO ANY PERSON OR BUSINESS ENTITY FOR ANY SPECIAL, PUNITIVE, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES BASED ON ANY USE OF THIS DOCUMENT.