



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

# More than 26 years of experience at your service

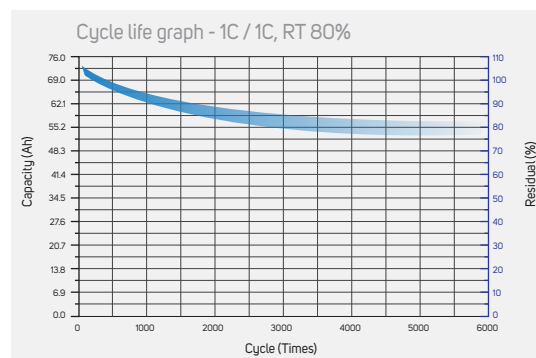
Customization for various applications

## 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		< 0.3C
		10 ~ 30 °C		≤ 2.0C
		30 ~ 40 °C		< 1.0C
	Discharge	-10 ~ 55 °C		
Available Storage Condition	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 (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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### 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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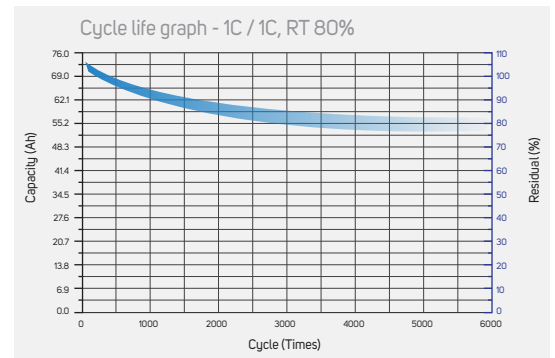
Customization for various applications

## Specification

Item	Value	Remark		
Cell type	53 Ah	SLPB100216216H/120216216		
Energy	5.5 kWh	@ C/5 discharge 23± 3℃		
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 ℃	< 0.3C	
		10 ~ 30 ℃	≤ 2.0C	
		30 ~ 40 ℃	< 1.0C	
Available Storage Condition	Discharge	-10 ~ 55 ℃		
		1 year	-20 ~ 25 ℃	@ 60± 25% R.H. SOC 50± 5%
		3 months	25 ~ 40 ℃	
		<1 week	40 ~ 55 ℃	

## Key Features

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- 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 <sup>1)</sup> (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