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.

Kokam
Great Power for Everyone

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

battery@kokam.com
www.kokam.com

Kokam
Great Power for Everyone

More than 26 years of experience at your service

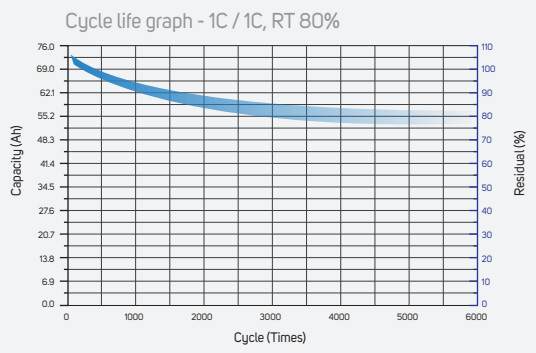
Customization for various applications

Specification

Item	Value		Remark
Cell Capacity	40 Ah	53 Ah	SLPB100216216H/ 120216216
Energy	2.07 kWh	2.74 kWh	@ C/5 discharge 23± 3℃
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℃
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 ℃	< 0.3C
		10 ~ 30 ℃	≤ 2.0C
		30 ~ 40 ℃	< 1.0C
	Discharge	-10 ~ 55 ℃	
Available Storage Condition	1 year	-20 ~ 25 ℃	@ 60± 25% R.H. SOC 50± 5%
	3 months	25 ~ 40 ℃	
	<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

Kokam
Great Power for Everyone

Kokam Battery Module

KBM SERIES MODULE

KBM216 2P 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 2P 14S - 5.5kWh

battery@kokam.com
www.kokam.com

More than 26 years of experience at your service

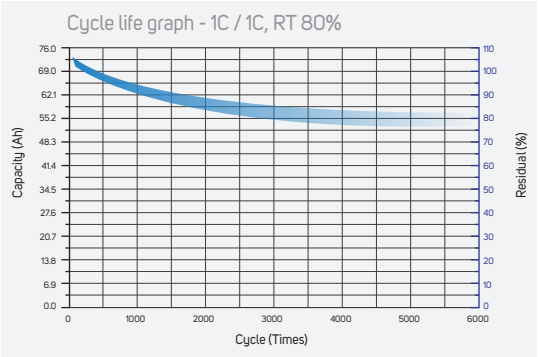
Customization for various applications

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
	Discharge	-10 ~ 55 ℃	
Available Storage Condition	1 year	-20 ~ 25 ℃	@ 60± 25% R.H. SOC 50± 5%
	3 months	25 ~ 40 ℃	
	<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

CE

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

Kokam
Great Power for Everyone