

Kokam Battery Module

KBM SERIES MODULE

KBM255 14S Gen 1.0

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 255 14S - 3.8kWh ▶

battery@kokam.com
www.kokam.com



More than 31 years of experience at your service

Customization for various applications

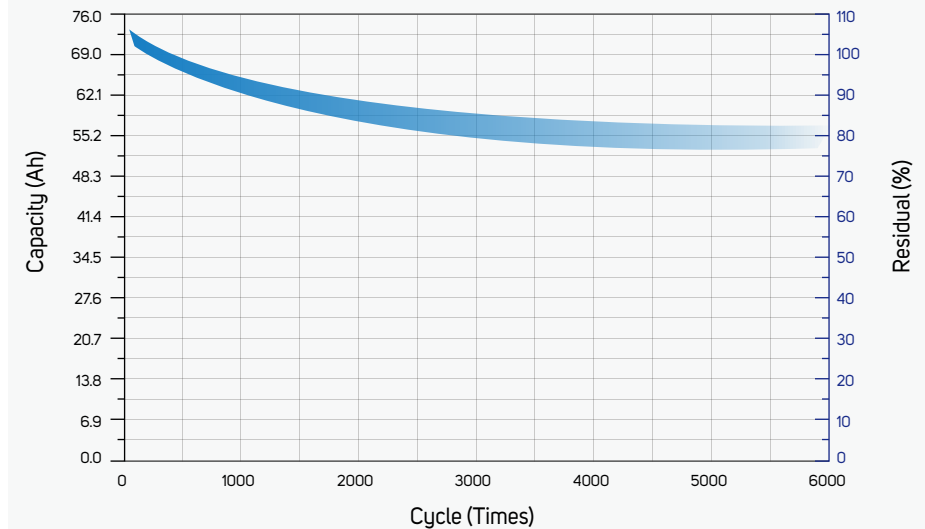
Applications

- Marine
- Industrial
- Defense
- UPS (Uninterruptible Power Supply)
- ESS (Energy Storage System)

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.

Cycle life graph - 1C / 1C, RT 80%



Specification



Item	Value		Remark
Energy	3.88 kWh		@ C/5 discharge 23± 3°C
Cell type	75 Ah		
Minimum Voltage	42.0 V		
Nominal Voltage	51.8 V		
Maximum Voltage	58.8 V		
Max. Continuous Charge C-rate	1C		@ 23± 3°C
Max. Continuous Discharge C-rate	1C		@ 23± 3°C
Peak Discharge C-rate	3C		< 10sec, > SOC 50%
Weight	Approx.	26.00 kg	
Module Dimension	Width	12.00 inch (305 mm)	
	Height	12.80 inch (327.7 mm)	
	Depth	9.26 inch (235.4 mm)	
Available Operating Temperature	Charge	0 ~ 10 °C	< 0.3C
		10 ~ 30 °C	≤ 2.0C
	Discharge	30 ~ 40 °C	< 1.0C
		-10 ~ 55 °C	
Available Storage Condition	1 year	-20 ~ 25 °C	@ 60± 25% R.H.
	3 months	25 ~ 40 °C	SOC 50± 5%
	<1 week	40 ~ 55 °C	

Kokam Battery Module

KBM SERIES MODULE

KBM255 2P 20S



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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 255 2P 20S - 11.1kWh ▶

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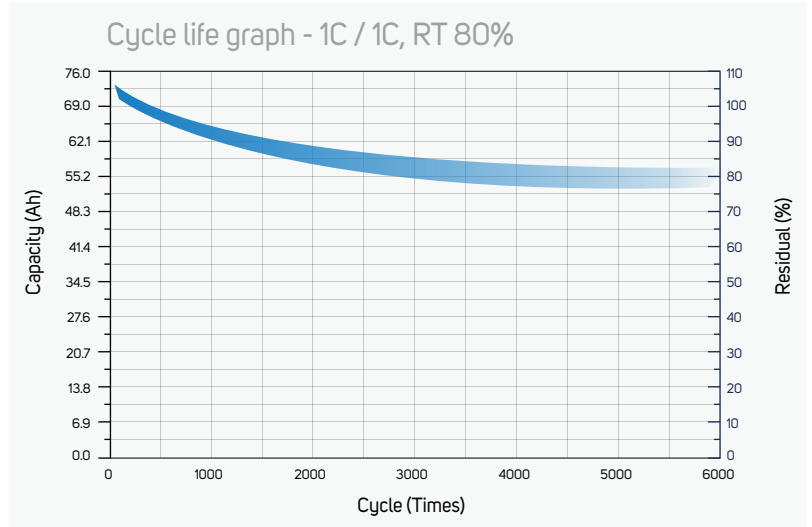


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Customization for various applications

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.



Specification



Item	Value		Remark
Energy	11.1 kWh		@ C/5 discharge 23± 3°C
Cell type	75 Ah		
Minimum Voltage	60.0 V		
Nominal Voltage	74.0 V		
Maximum Voltage	84.0 V		
Max. Continuous Charge C-rate	4C		@ 23± 3°C
Max. Continuous Discharge C-rate	4C		@ 23± 3°C
Peak Discharge C-rate	8C		< 10sec, > SOC 50%
Weight	Approx.	92.5 kg	
Module Dimension	Width	12.20 inch (310 mm)	
	Height	12.28 inch (312 mm)	
	Depth	25.31 inch (643 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	
	3 months	25 ~ 40 °C	@ 60± 25% R.H.
	<1 week	40 ~ 55 °C	SOC 50± 5%