

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 27 years of experience at your service

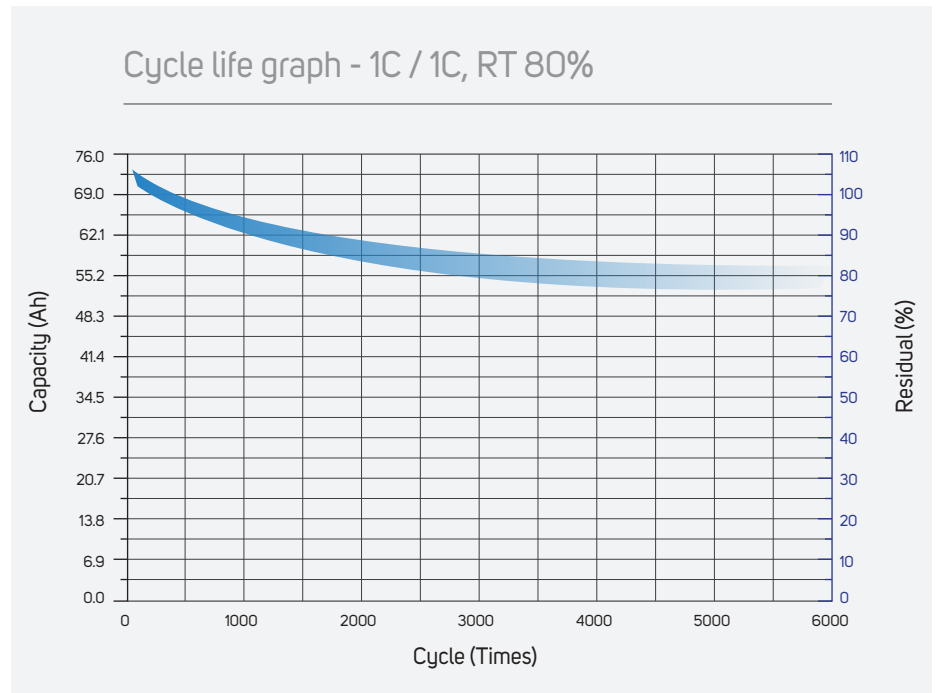
Customization for various applications

## 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.



## 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
		30 ~ 40 °C	< 1.0C
Available Storage Condition	Discharge	-10 ~ 55 °C	
	1 year	-20 ~ 25 °C	@ 60± 25% R.H.
	3 months	25 ~ 40 °C	SOC 50± 5%
	<1 week	40 ~ 55 °C	

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# KBM SERIES MODULE

## KBM255 2P 20S



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 2P 20S - 11.1kWh ▶

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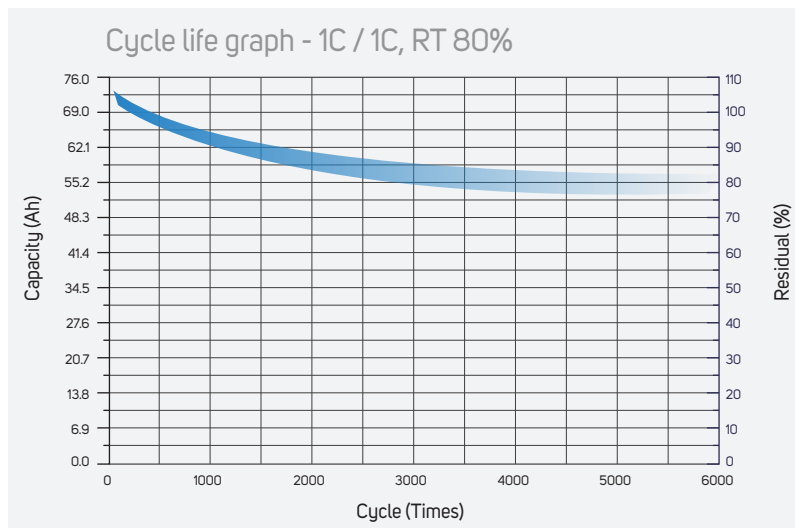


# More than 27 years of experience at your service

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	
	Width	12.20 inch (310 mm)	
	Height	12.28 inch (312 mm)	
Module Dimension	Depth	25.31 inch (643 mm)	
	Charge	0 ~ 10 °C	< 0.3C
		10 ~ 30 °C	≤ 2.0C
30 ~ 40 °C		< 1.0C	
Available Operating Temperature	Discharge	-10 ~ 55 °C	
	1 year	-20 ~ 25 °C	
Available Storage Condition	3 months	25 ~ 40 °C	@ 60± 25% R.H.
	<1 week	40 ~ 55 °C	SOC 50± 5%