

# Kokam Battery Module

## KBM SERIES MODULE

KBM255 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 255 14S - 3.8kWh ▶

battery@kokam.com  
www.kokam.com



# More than 26 years of experience at your service

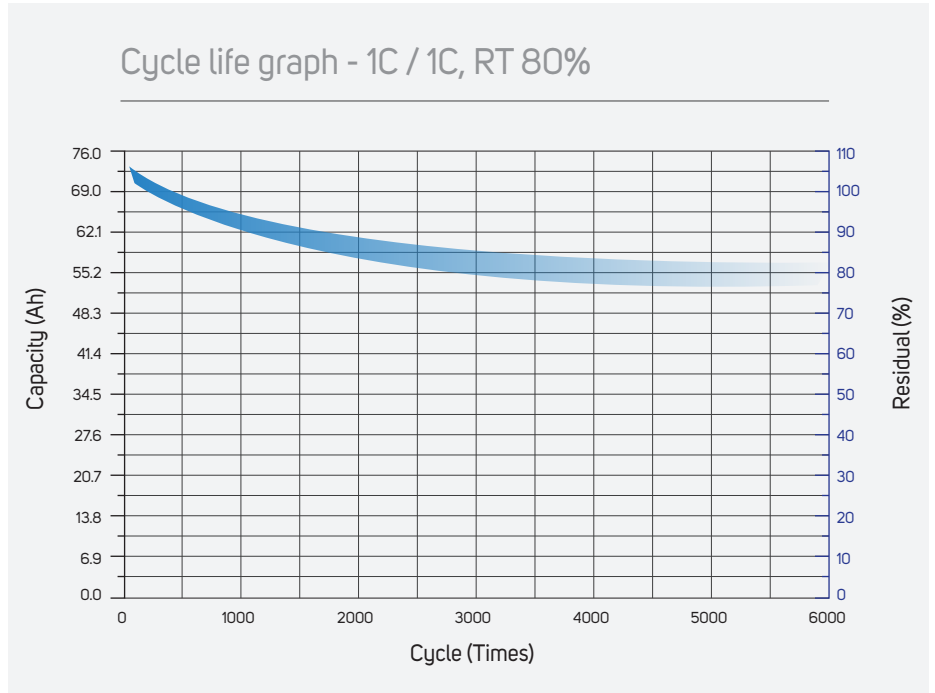
Customization for various applications

## 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		Cell type: SLPB120255255
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	



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 MISTAKES, INACCURACIES OR TYPOGRAPHICAL ERRORS. KOKAM ASSUMES NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE INFORMATION, DOCUMENTS, SOFTWARE, MATERIALS AND/OR 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 PRIOR 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.

Kokam Battery Module

# 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 ▶

battery@kokam.com  
www.kokam.com

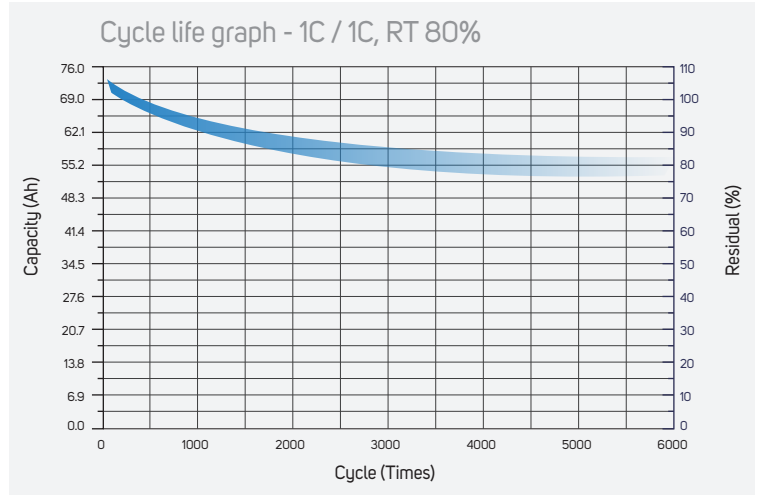


# More than 26 years of experience at your service

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		SLPB120255255	
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. SOC 50± 5%
		<1 week	40 ~ 55 °C	