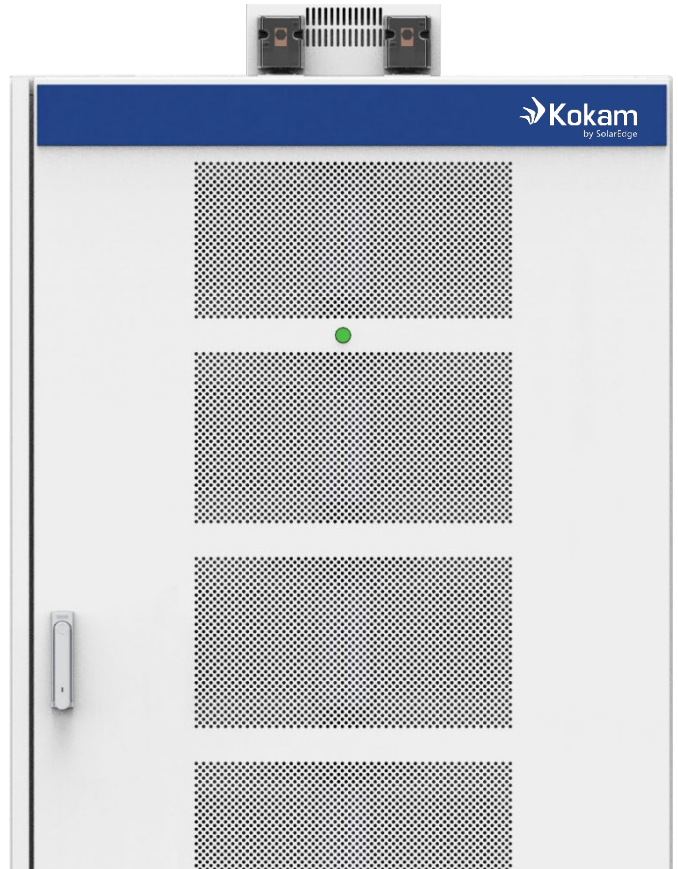


Ultra High Power Type

133kWh Battery Rack



- › Industry-leading high power performance (Up to 1,065kW)
- › Pre-assembled solution for ease of installation and maintenance
- › Optimized thermal management via air cooling
- › High reliability and unparalleled safety
- › Long cycle and calendar life (Over 8,000 cycles and up to 15 years*)
- › Scalable up to multiple MWh with virtually no limit
- › Highly intelligent BMS** for sophisticated system control and monitoring

*Depending on the load profile, the warranty condition may differ

**BMS: Battery Management System

Battery Rack Specification

Model: KRI-3C4R-C-240S-UHP-133

Item	Specification	Remarks	
Electrical			
Rack Configuration	12 modules in series	Cell: 130255255P (75Ah)	
Installed Energy	133kWh	-	
Usable Energy	122kWh	@ 1P discharge, BOL	
Nominal Voltage	888Vdc	-	
Operating Voltage Range	792 ~ 991Vdc	-	
Max. Charge Power	399kW	@ 3P, 1 Cycle	
Max. Charge Current	450A	@ 3C, 1 Cycle	
Rated Charge Power	133kW	@ 1P	
Rated Charge Current	150A	@ 1C	
Peak Discharge Power	1,065kW	@ 8P, ≤10 sec, ≥SOC 50%	
Peak Discharge Current	1,200A	@ 8C, ≤10 sec, ≥SOC 50%	
Max. Discharge Power	439kW	@ 3.3P, 1 Cycle	
Max. Discharge Current	495A	@ 3.3C, 1 Cycle	
Rated Discharge Power	133kW	@ 1P	
Rated Discharge Current	150A	@ 1C	
Round Trip DC Efficiency	>95%	@ 1P, BOL	
Control Power	AC 100~240V	-	
Mechanical			
Dimension	1,170 (W) x 730 (D) x 1,960 (H) mm	± 5%, incl. Fuse Box	
Weight	1,600kg	± 5%	
IP Grade	20	-	
Communication			
Communication Interface	Ethernet/RS-485/CAN2.0B	ModBus TCP/ ModBus RTU	
Monitoring	RS-232C	-	
Environment			
Operating Temperature	Charge	0 ~ 10°C	@ <0.2P
		10 ~ 35°C	@ <2P
		35 ~ 45°C	@ <1P
	Discharge	0 ~ 55°C	-
Operating Temperature		22~ 28°C	Recommended
Storage Humidity		<60 ± 25% RH	Non-condensing
Storage Temperature	1 Year	-20 ~ 25°C	SOC 50 ± 5%
	6 Months	25 ~ 35°C	
	3 Months	35 ~ 45°C	
	<1 Week	45 ~ 60°C	
Expected Cycle & Calendar Life**			
Cycle Life @ DoD 90%	≥6,000 cycles	@ 25 ± 3°C, 1C/1C, SOH 70%	
Cycle Life @ DoD 80%	≥8,000 cycles	@ 25 ± 3°C, 1C/1C, SOH 70%	
Calendar Life	Up to 15 years	-	
Certifications			
Certifications	UL1642, UL1973, CE, UN38.3	@ Cell level	
	CE	@ Module level	

*P : Power-rate / C : Current-rate

**Depending on the load profile, the warranty condition may differ

Offered Solution

System Config.*	Installed Energy	Nominal Voltage	Operating Voltage	Rated Charge Power	Rated Discharge Power	Max Charge Power	Max Discharge Power	Max Discharge Current	BCP** Required	No. of Banks***
2 Racks	266kWh	888Vdc	792 ~ 991Vdc	266kW	266kW	798kW	877kW	990A	Y	1
3 Racks	399kWh	888Vdc	792 ~ 991Vdc	399kW	399kW	1197kW	1316kW	1485A	Y	1
4 Racks	532kWh	888Vdc	792 ~ 991Vdc	532kW	532kW	1596kW	1755kW	1980A	Y	1
5 Racks	666kWh	888Vdc	792 ~ 991Vdc	666kW	666kW	1998kW	2197kW	2475A	Y	1
6 Racks	799kWh	888Vdc	792 ~ 991Vdc	799kW	799kW	2397kW	2636kW	2970A	Y	1
7 Racks	932kWh	888Vdc	792 ~ 991Vdc	932kW	932kW	2796kW	3075kW	3465A	Y	1
8 Racks	1065kWh	888Vdc	792 ~ 991Vdc	1065kW	1065kW	3195kW	3514kW	3960A	Y	1
9 Racks	1198kWh	888Vdc	792 ~ 991Vdc	1198kW	1198kW	3594kW	3953kW	4455A	Y	2
10 Racks	1332kWh	888Vdc	792 ~ 991Vdc	1332kW	1332kW	3996kW	4395kW	4950A	Y	2
11 Racks	1465kWh	888Vdc	792 ~ 991Vdc	1465kW	1465kW	4395kW	4834kW	5445A	Y	2
12 Racks	1598kWh	888Vdc	792 ~ 991Vdc	1598kW	1598kW	4794kW	5273kW	5940A	Y	2
13 Racks	1731kWh	888Vdc	792 ~ 991Vdc	1731kW	1731kW	5193kW	5712kW	6435A	Y	2
14 Racks	1864kWh	888Vdc	792 ~ 991Vdc	1864kW	1864kW	5592kW	6151kW	6930A	Y	2
15 Racks	1998kWh	888Vdc	792 ~ 991Vdc	1998kW	1998kW	5994kW	6593kW	7425A	Y	2
16 Racks	2131kWh	888Vdc	792 ~ 991Vdc	2131kW	2131kW	6393kW	7032kW	7920A	Y	2
17 Racks	2264kWh	888Vdc	792 ~ 991Vdc	2264kW	2264kW	6792kW	7471kW	8415A	Y	3
18 Racks	2397kWh	888Vdc	792 ~ 991Vdc	2397kW	2397kW	7191kW	7910kW	8910A	Y	3
19 Racks	2530kWh	888Vdc	792 ~ 991Vdc	2530kW	2530kW	7590kW	8349kW	9405A	Y	3
20 Racks	2664kWh	888Vdc	792 ~ 991Vdc	2664kW	2664kW	7992kW	8791kW	9900A	Y	3
21 Racks	2797kWh	888Vdc	792 ~ 991Vdc	2797kW	2797kW	8391kW	9230kW	10395A	Y	3
22 Racks	2930kWh	888Vdc	792 ~ 991Vdc	2930kW	2930kW	8790kW	9669kW	10890A	Y	3
23 Racks	3063kWh	888Vdc	792 ~ 991Vdc	3063kW	3063kW	9189kW	10107kW	11385A	Y	3
24 Racks	3196kWh	888Vdc	792 ~ 991Vdc	3196kW	3196kW	9588kW	10546kW	11880A	Y	3
25 Racks	3330kWh	888Vdc	792 ~ 991Vdc	3330kW	3330kW	9990kW	10989kW	12375A	Y	4
26 Racks	3463kWh	888Vdc	792 ~ 991Vdc	3463kW	3463kW	10389kW	11427kW	12870A	Y	4
27 Racks	3596kWh	888Vdc	792 ~ 991Vdc	3596kW	3596kW	10788kW	11866kW	13365A	Y	4
28 Racks	3729kWh	888Vdc	792 ~ 991Vdc	3729kW	3729kW	11187kW	12305kW	13860A	Y	4
29 Racks	3862kWh	888Vdc	792 ~ 991Vdc	3862kW	3862kW	11586kW	12744kW	14355A	Y	4
30 Racks	3996kWh	888Vdc	792 ~ 991Vdc	3996kW	3996kW	11988kW	13186kW	14850A	Y	4

*Depending on customer requirements, more than 30 racks can be connected in parallel.

**BCP: Battery Connection Panel (Incl. switch disconnecter, system BMS)

***Depending on operational requirements, the number of Banks may vary. One BCP is required per Bank.

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