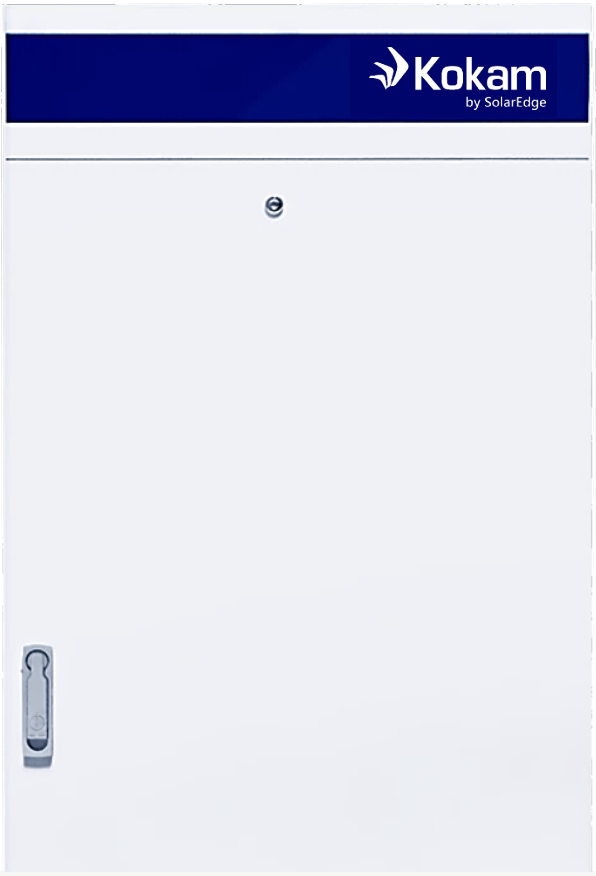
Ultra High Power Type

33kWh Battery Rack



- Highly advanced lithium-ion battery solution for mission-critical applications
- Industry-leading high power performance (Up to 10 C-rate)
- Pre-assembled solution for ease of installation and maintenance
- Exceedingly small footprint due to high energy density
- 2-pole and 3-pole topology available
- High reliability and unparalleled safety
- Long cycle and calendar life (Over 8,000 cycles and up to 15 years*)
- Highly intelligent BMS** for sophisticated system control and monitoring

*Depending on the load profile, the warranty condition may differ / **BMS: Battery Management System

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Battery Rack Specification

Model: KUPSI-1C4RT2-33-UP

Item		Specification	Remarks
Electrical			
Rack Configuration		4 modules in series	Cell: 130255255P (75Ah)
Module Configuration		1P30S	-
Installed Energy		33kWh	-
Usable Energy		30kWh	@ 1P discharge, BOL
Nominal Voltage		444Vdc	-
Operating Voltage Range		384 ~ 495Vdc	-
Float Voltage		495Vdc	-
Max. Charge Power		66kW	@ 2P, 1 Cycle
Max. Charge Current		150A	@ 2C, 1 Cycle
Rated Charge Power		33kW	@ 1P
Rated Charge Current		75A	@ 1C
Max. Discharge Power		333kW	@ 10P, ≤6 min., 1 Cycle
Max. Discharge Current		750A	@ 10C, ≤6 min., 1 Cycle
Rated Discharge Power		33kW	@ 1P
Rated Discharge Current		75A	@ 1C
Round Trip DC Efficiency		>95%	@ 1P, BOL
Control Power		AC 100~240V, 50/60Hz	1ph, 2 wire
Mechanical			
Dimension		580 (W) x 740 (D) x 1,960 (H) mm	-
Weight		Approx. 500kg	-
IP Grade		20	-
Communication			
Communication Interface		Ethernet/RS-485	ModBus TCP/ModBus RTU
Monitoring		RS-232C	-
Environment			
Operating Temperature	Charging	0 ~ 10℃	@ <0.2P
		10 ~ 35℃	@ <2P
		35 ~ 45℃	@ <1P
	Discharging	0 ~ 55℃	-
Operating Temperature		18 ~ 28℃	Recommended
Storage Humidity		<60±25% RH	Non-condensing
Storage Temperature	1 year	-20 ~ 25℃	SOC 50±5%
	6 months	25 ~ 35℃	
	3 months	35 ~ 45℃	
	<1 week	45 ~ 60℃	
Expected Cycle & Calendar Life**			
Cycle Life @ DoD 90%		≥6,000 cycles	@ 25±3℃, 1C/1C, SOH 70%
Cycle Life @ DoD 80%		≥8,000 cycles	@ 25±3℃, 1C/1C, SOH 70%
Calendar Life		Up to 15 years	-
Certifications			
Certifications		UL1642, UL1973, CE, UN38.3	@ Cell level

*P : Power-rate / C : Current-rate
**Depending on the load profile, the warranty condition may differ

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