

High Energy Type

3.0kWh Battery Module



- › All-in-one handheld air cooling battery pack
- › Light in weight and small in size
- › Easy to transport, install, and maintain
- › Excellent power-to-energy balance
- › IP21 compliant enclosure
- › 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

Pack Specification

Model: KIB-G2-14S-HE-60-30-IC-C

Item	Specification	Remarks	
Electrical			
Pack Configuration	1 Module + 1 Battery Protection Unit (BPU)	Cell: 120216216G1 (60Ah)	
Module Configuration	1P14S	-	
Installed Energy	3.0kWh	-	
Usable Energy	2.8kWh	@ 0.5P discharge, BOL	
Nominal Voltage	51.5Vdc	-	
Operating Voltage Range	46.9 ~ 57.8Vdc	-	
Max. Charge Power	3.0kW	@ 1P, 1 Cycle	
Max. Charge Current	60A	@ 1C, 1 Cycle	
Rated Charge Power	1.5kW	@ 0.5P	
Rated Charge Current	30A	@ 0.5C	
Peak Discharge Power	6.1kW	@ 2P, ≤10 sec, ≥SOC 50%	
Peak Discharge Current	120A	@ 2C, ≤10 sec, ≥SOC 50%	
Max. Discharge Power	3.0kW	@ 1P, 1 Cycle	
Max. Discharge Current	60A	@ 1C, 1 Cycle	
Rated Discharge Power	1.5kW	@ 0.5P	
Rated Discharge Current	30A	@ 0.5C	
Round Trip DC Efficiency	>95%	@ 0.5P, BOL	
Control Power	DC 51V Internal Power	-	
Mechanical			
Dimension	250 (W) x 450 (D) x 315 (H) mm	-	
Weight	27kg	±5%	
IP Grade	21	-	
Communication			
Communication Interface	CAN2.0B	-	
Monitoring	RS-232C	-	
Environment			
Operating Temperature	Charging	0 ~ 10°C	@ <0.2P
		10 ~ 35°C	@ <1P
		35 ~ 45°C	@ <1P
	Discharging	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	@ Cell Level	

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

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

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