

High Power Type

2.9kWh Battery Module



- › All-in-one handheld air cooling battery pack
- › Light in weight and small in size
- › Easy to transport, install, and maintain
- › Exceptionally high power performance
- › IP32 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-HP-57-29-IC-C

Item	Specification	Remarks	
Electrical			
Pack Configuration	1 Module + 1 Battery Protection Unit (BPU)	Cell: KDX20007 (57Ah)	
Module Configuration	1P14S	-	
Installed Energy	2.9kWh	-	
Usable Energy	2.7kWh	@ 1P discharge, BOL	
Nominal Voltage	51.5Vdc	-	
Operating Voltage Range	46.2 ~ 57.8Vdc	-	
Max. Charge Power	5.8kW	@ 2P, 1 Cycle	
Max. Charge Current	114A	@ 2C, 1 Cycle	
Rated Charge Power	2.9kW	@ 1P	
Rated Charge Current	57A	@ 1C	
Peak Discharge Power	17.6kW	@ 6P, ≤10 sec, ≥SOC 50%	
Peak Discharge Current	342A	@ 6C, ≤10 sec, ≥SOC 50%	
Max. Discharge Power	8.8kW	@ 3P, 1 Cycle	
Max. Discharge Current	171A	@ 3C, 1 Cycle	
Rated Discharge Power	2.9kW	@ 1P	
Rated Discharge Current	57A	@ 1C	
Round Trip DC Efficiency	>95%	@ 1P, BOL	
Control Power	DC 51V Internal Power	-	
Mechanical			
Dimension	250 (W) x 450 (D) x 315 (H) mm	-	
Weight	27.3kg	±5%	
IP Grade	21	-	
Communication			
Communication Interface	CAN2.0B	-	
Monitoring	RS-232C	-	
Environment			
Operating Temperature	Charging	0 ~ 10°C	@ <0.2P
		10 ~ 35°C	@ <2P
		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	-	

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

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

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.