

High Energy Type

53Ah Lithium-ion Battery

UL, UN, SBA, CE Certified



- High energy density (182Wh/kg and 418Wh/L)
- High gravimetric and volumetric power density
- Excellent power-to-energy balance
- Long cycle and calendar life (Over 6,000 cycles, up to 15 years*)
- Low internal resistance and heat generation
- Highly reliable with proven field performance

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

Electrical Characteristics

Model: SLPB120216216

Items		Specification	Remarks	
Nominal Capacity (Ah)		53	Charge @0.2C, 25±3°C Discharge @0.2C, 25±3°C	
Nominal Energy (Wh)		196.1		
Energy Density	Gravity (Wh/kg)	182		
	Volume (Wh/L)	418	Excluded tab and seal	
Internal Resistance (mΩ) / Max.		0.9	AC @1kHz, SOC 30±5%	
Weight (g) / Max		1095		
Cell Dimension (mm)	Width	226	Unfolded	
	Length	227	Excluded tab length	
	Thickness	12	0.5kgf/cm ² , SOC 30±5%	
Voltage (V)	Average	3.7		
	Lower Limit	2.7		
	Upper Limit	4.2		
Current (A)	Charge	Cont.	106 (2C)	@25±3°C
		Cont.	265 (5C)	@25±3°C
	Discharge	Peak	424 (8C)	≤ 10 sec, ≥ SOC 50%
Cycle Life at 90% DOD		1C/1C	≥ 6,000	@25±3°C, 70% remaining capacity
Certification		UL1642, SBA1101, IEC62133, UN38.3		

Common Specifications*

Charging Temperature	0 ~ 10°C	< 0.2C	Pre-charging range
	10 ~ 35°C	< 2.0C	Rapid charging range
	35 ~ 45°C	< 1.0C	Charging range
Discharging Temperature	-20 ~ 55°C		
Storage Temperature	-20 ~ 25°C	1 year	@60±25% R.H. SOC 50±5%
	25 ~ 35°C	6 months	
	35 ~ 45°C	3 months	
	45 ~ 60°C	< 1 week	

*Customers shall consult Kokam if temperature condition is outside the range in which cyclic operation is allowed.

*Customers shall review and understand the cell safe handling guideline prior to using the cell.

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.