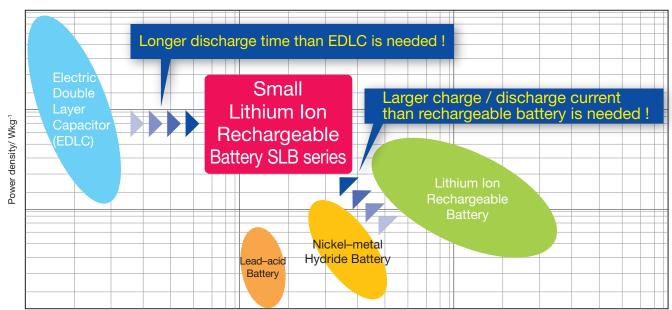


Development of Small Lithium Ion Rechargeable Battery "SLB" Suitable for IoT and Wearable Applications

Small Lithium Ion Rechargeable Battery that achieves both high Power density and Energy density

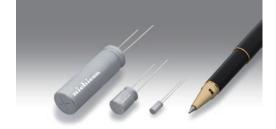
>>> Development Background



Energy density/ Whkg⁻¹

>>> Product Features

- Rapid charging/discharging is possible: Support for 20 C rate rapid charging/discharging
- Low temperature performance: Possible to charge and discharge even in cold regions (-30°C)
- Safety: Extremely low explosion and ignition possibility even if an internal short circuit is forcibly generated
- Long life: Maintains a capacity of 80% or more after 25,000 charging/discharging cycles [Conditions] Temperature:25°C / Voltage range:1.8 to 2.8V Charging/discharging rate:10 C / Rest:0sec



Small Lithium Ion Rechargeable Battery SLB series

>>> Specifications

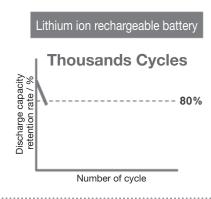
ltem	Characteristics	
Nominal voltage	2.4V	
Max. charge voltage (Under continuous charge)	2.8V	
Discharge cutoff voltage (Under continuous discharge)	1.8V	
Temperature range	-30 to 60°C	

Part number	NEW SLB03070LR35	SLB08115L140	<i>TENTATIVE</i> SLB12400L151
Size (mm)	φ3×7L	φ8×11.5L	φ12.5×40L
Capacity (mAh)	0.35	14	150
Energy density (Wh/L)	17	58	73
Weight (g)	0.2	1.5	9.2

Features of Small Lithium Ion Rechargeable Battery "SLB"

Long life

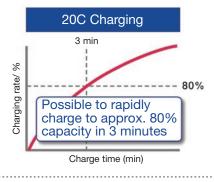
Maintains a capacity of at least 80% after 25,000 charging/discharging cycles

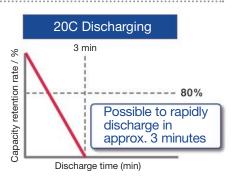




Rapid charge/discharge

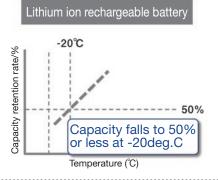
High input/output density approaching electric double layer capacitors (EDLCs)

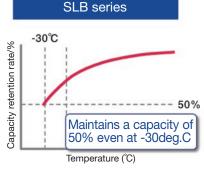




Low temperatures

Possible to use in cold regions (-30deg.C)





Safety -

Extremely low possibility of explosion or ignition even when used under harsh conditions

 We have confirmed these batteries are safe with no explosions or ignition in crush, nail insertion, blunt nail, external short circuit, overcharge and forced discharge tests.

Extremely low risk of rupture or ignition and high safety.



Safe





NICHICON CORPORATION

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SAFETY PRECAUTIONS

 Please use this product in accordance with NICHICON's product specifications. If the customer uses this product in a manner other than indicated in the delivery specifications, NICHICON will not assume responsibility in the event of failure.

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 - CATALOG PRINTED IN October 2019