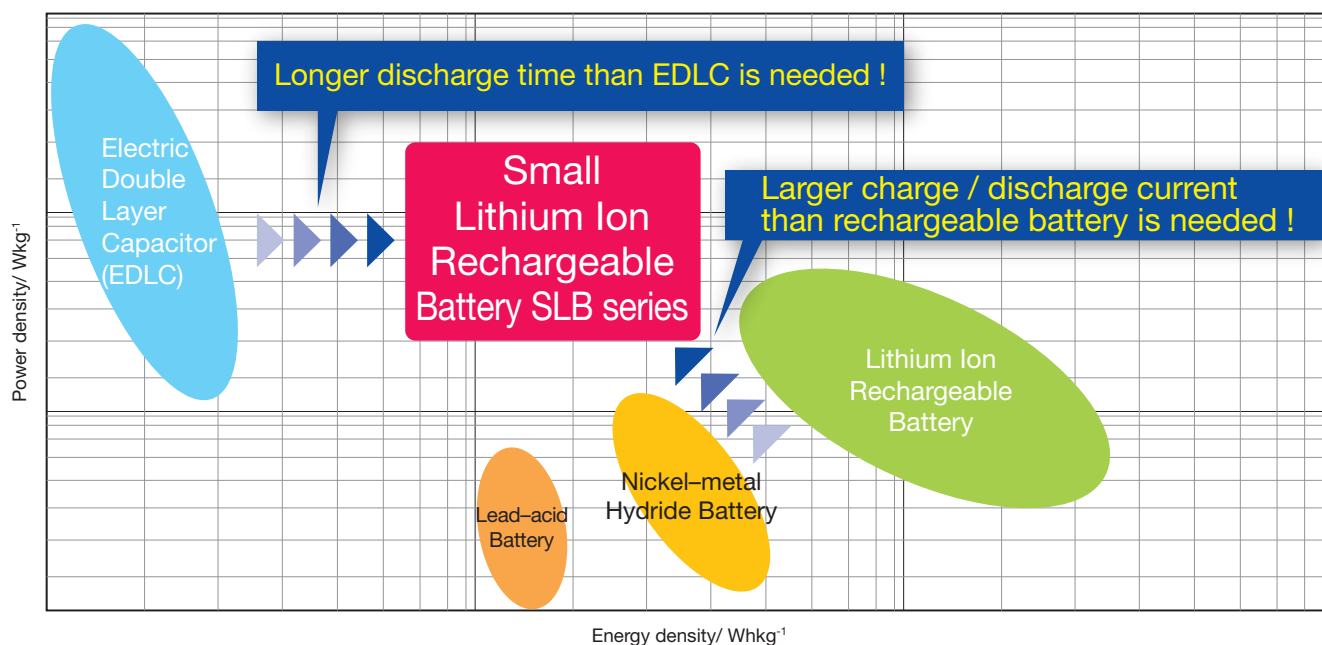


Development of Small Lithium Ion Rechargeable Battery “SLB” Suitable for IoT and Wearable Applications

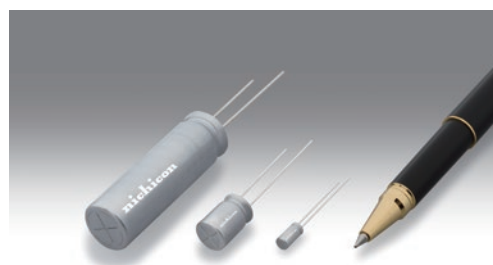
**Small Lithium Ion Rechargeable Battery that achieves both
high Power density and Energy density**

» Development Background



» 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

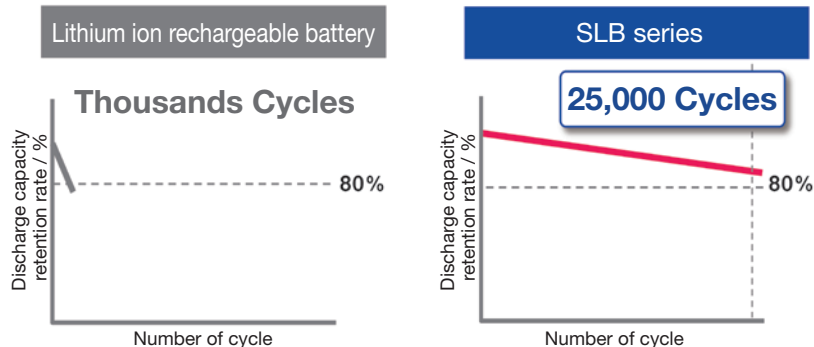
Item	Characteristics
Nominal voltage	2.4V
Max. charge voltage (Under continuous charge)	2.8V
Discharge cutoff voltage (Under continuous discharge)	1.8V
Temperature range	-30 to 60°C

Part number	NEW SLB03070LR35	TENTATIVE SLB08115L140	TENTATIVE SLB12400L151
Size (mm)	$\phi 3 \times 7\text{L}$	$\phi 8 \times 11.5\text{L}$	$\phi 12.5 \times 40\text{L}$
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"

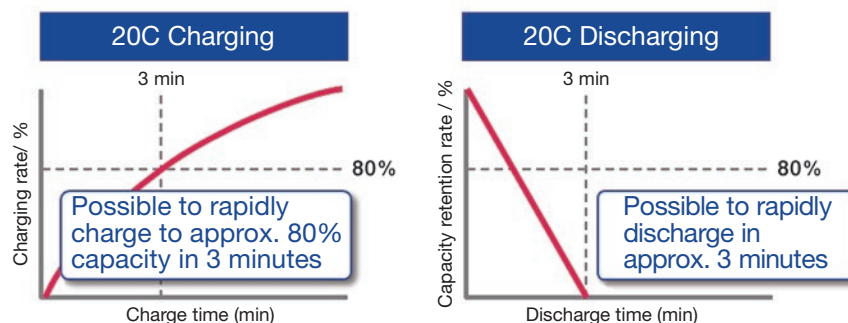
1 Long life

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



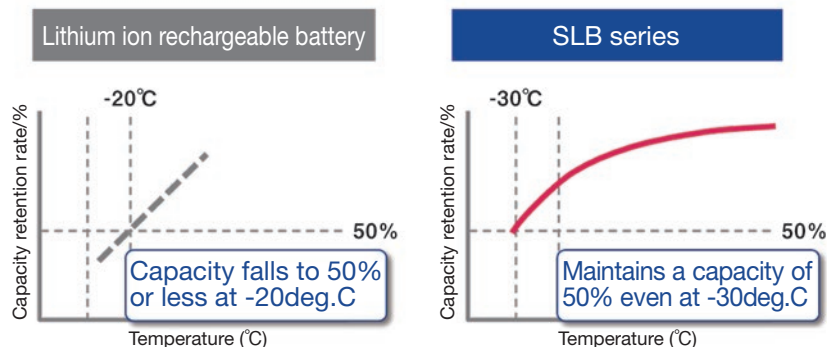
2 Rapid charge/discharge

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



3 Low temperatures

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



4 Safety

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

Extremely low risk of rupture or ignition and high safety.



Safe

Safety Test

Crushing by pressure

After test



Nail penetration

After test



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※ The data provided is for introduction purposes and is not guaranteed value.



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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