



Rechargeable Battery

20 Amp Hour Cell

Cell Specifications

Nominal Capacity	20 Ah
Nominal Voltage	2.3 V
Weight	510 g
Energy / Weight	90 Wh/kg
Energy / Volume	177 Wh/L
Impedance (AC, 1kHz)	0.53 mΩ
Operating Voltage	1.5 to 2.7 V
Operating Temperature	-30° to 55°C
Charging Method	CC-CV

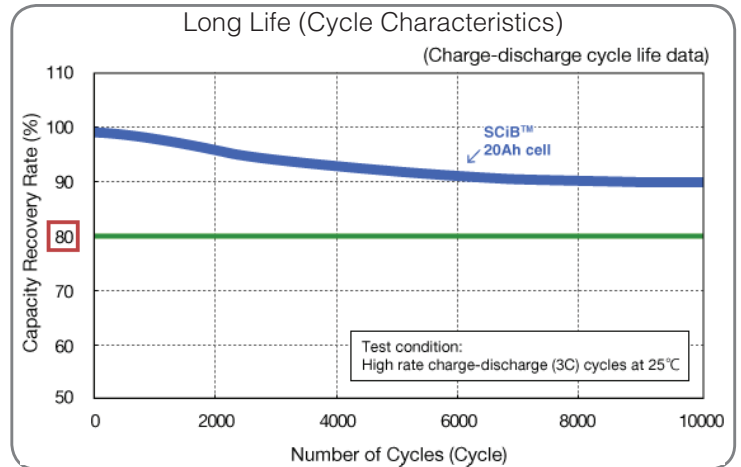
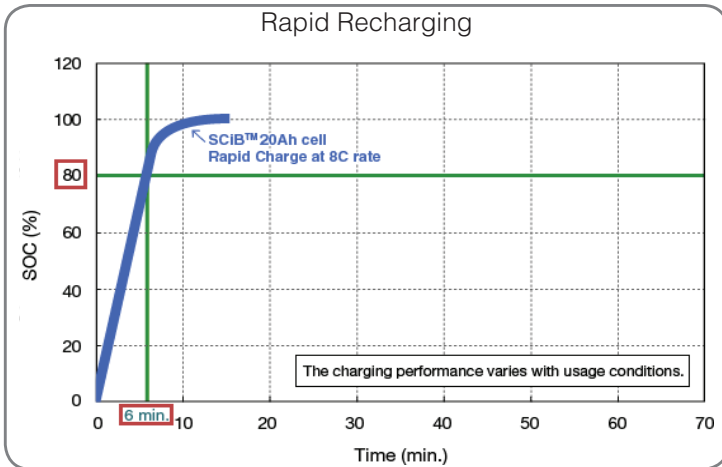


- ▶ **Long Life Cycle Characteristics** – Exceptional long life is achieved by using new oxide-based materials. Capacity loss after 10,000 charge-discharge cycles is less than 20%.
- ▶ **Inherently Safe** – The battery's advanced safety features include Toshiba's proprietary lithiumtitanate technology which prevents thermal runaway.
- ▶ **Fast Charge Rates** – It takes only 6 minutes to charge from SOC 0% to 80%, SCiB batteries increase customer up-time and productivity and enable efficient capture of regen energy.
- ▶ **High Output Performance** – SCiB batteries offer a power density nearly equivalent to that of ultra-capacitors. This ensures sufficient power output (160 A continuous) for high power application needs.
- ▶ **Superb Temperature Performance** – SCiB provides sufficient discharge capacity at various temperatures ranging from ice-cold -30°C up to 55°C. This makes SCiB suitable for applications in wide ranging temperatures.
- ▶ **Production** – Producing the batteries on a state-of-the-art automated high volume production line ensures that the customer receives the highest quality battery and stable supply to meet the most demanding application needs.

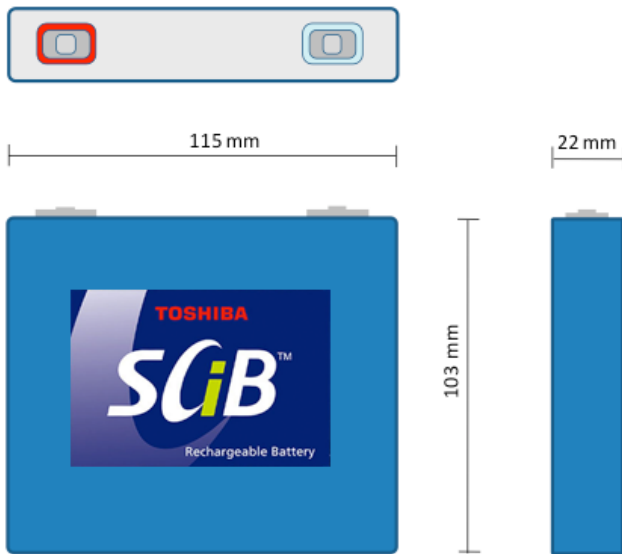


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Technical data shown above is not intended as a guarantee of performance. Specifications are subject to change, as improvements are made, without prior notice.
*Conventional lithium ion battery means lithium ion battery that can be purchased on the consumer market as of February 2012. The displayed data is from actual measurements carried out by Toshiba.



Common Applications Include:

- ▶ HEV, PHEV, & EV
- ▶ Solar Power Generation, Wind Power Generation, & Grid Storage
- ▶ Forklifts/Automated Guide Vehicles
- ▶ Mobile Medical Equipment
- ▶ Uninterruptible Power Systems
- ▶ Electric Bicycles, Motorcycles, & Scooters



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