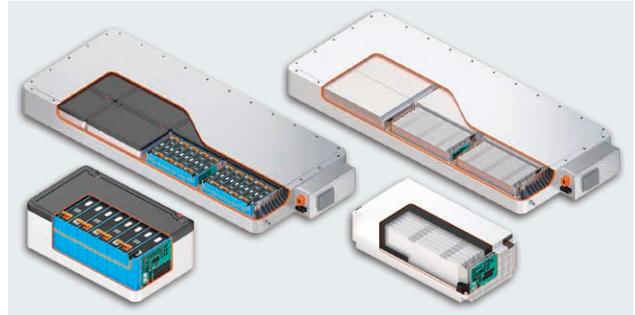


Application Note

— Example Applications —

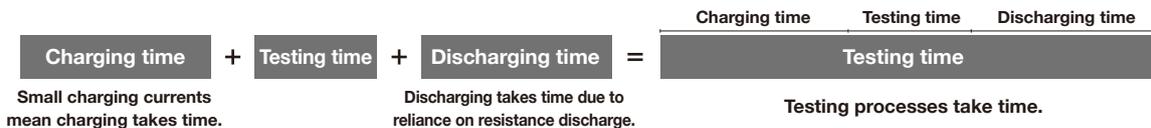
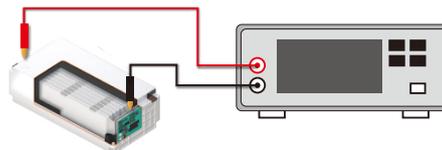
Increasing Productivity and Shortening Testing Times

In recent years, large lithium-ion batteries have been commercialized for use in electric vehicles (EVs) and plug-in hybrid vehicles. Commercialization for use in residential and commercial electricity storage systems as well as in industrial applications such as emergency power supplies for mobile base stations and industrial machinery is also accelerating. Consequently, manufacturers of lithium-ion batteries are seeking out ways to further improve productivity.



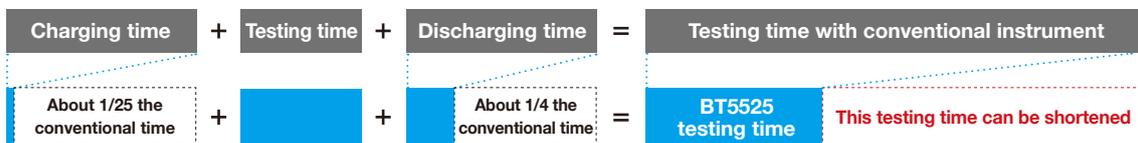
Issue Large lithium-ion battery testing processes take time (for charging and discharging times).

Using a standard insulation resistance tester



Standard insulation resistance testers have use low charging currents, and as a result, it takes a significant amount of time to charge high-capacity batteries during testing. Additionally, most of the instruments discharge batteries under testing by means of resistance discharge, with the result that discharging also takes time.

Solution The BT5525 can dramatically reduce charging and discharging times during testing.



Shorten testing times with the BT5525.
Help improve productivity.



Since the BT5525 charges up to 50 mA and discharges using a constant current, both charging and discharging times can be shortened. In addition, it may also be possible to shorten the set testing times since less time is required to reach the judgment standards (reference values) that are being used currently.

Instrument used **BATTERY INSULATION TESTER BT5525** Hioki product