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## SII Launches New Coin-Type Lithium Rechargeable Battery for High Temperature Operation

Ideal for Power Backup at Temperature up to 85 deg-C

Seiko Instruments Inc. (SII) announced today a new coin-type lithium rechargeable battery, "MS920T", which offers a higher operating temperature than conventional rechargeable batteries. While the maximum operating temperature for conventional batteries is 60 deg-C, "MS920T" can operate at 85 deg-C. Mass production is scheduled to start in July 2014.



MS920T

Coin-type lithium rechargeable batteries are widely used in various electrical devices, such as digital still cameras, Security and Dashboard Cameras, Thermostats, GPS, as a power backup for real time clock and memory. SII successfully increased the operating temperature for "MS920T" up to 85 deg-C using its unique sealing technology to meet outdoors and inside vehicle applications.

### Features

#### 1. High operating temperature (85 deg-C)

Generally, using a lithium rechargeable battery at high temperature accelerates the deterioration. However MS920T keeps more than 95% of its initial capacity after 60 days of storage at 85 degrees C, though the conventional type batteries lose their capacity to 40% of the initial capacity under the same conditions.

#### 2. Excellent overdischarge characteristics

MS920T keeps stable discharge characteristics even after being overdischarged to 0V.

### 3. Long cycle life

MS920T can be charged and discharged more than 100 times with 100% depth of discharge, when the battery is charged and discharged at 3.3V to 2.0V\*.

\*Estimated based on the design.

#### Specifications

Nominal Voltage:	3 V
Nominal Capacity:	6.4 mAh
Internal Impedance:	60 $\Omega$
Size:	Diameter 9.5mm, Height 2.0mm
Weight:	0.45 g

#### Applications

Backup power supply for memory or real time clock in various types of electric devices

#### Mass production

Scheduled in July, 2014

Samples available upon request

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