

# Solution Proposal for Border Security Application

## 6 Features of SCiB™



### Case study



In recent years, border surveillance has become increasingly important as a counter measure against threats such as terrorism, illegal migration, illegal trade and so on. Unmanned surveillance systems have been set up in many installations to manage these problems, and these systems need to be robust enough to operate stably for long periods of time, even in harsh environments. Toshiba's SCiB™ products have been delivered in significant quantities for those uses and have contributed to the operation of those systems with features such as highly safe operation, a wide range of operation temperatures, and a long life cycle.

### SCiB™ Solution

#### Wide Temperature Range

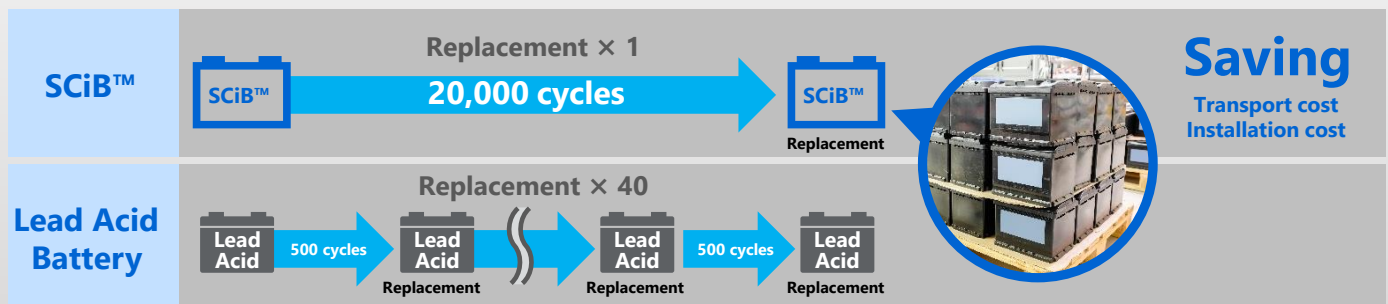
- Nominal operational temperature of SCiB™ is -30°C to 45°C. This provides high levels of availability and reliability.
- SCiB™ has low degradation even when charged and discharged at -30°C and performs well in low temperatures.

#### High Safety

- There is a very low risk of fire or explosion from internal short circuits caused by external pressure or other factors. No cell defects have been recorded since SCiB™ production started in 2008.

#### Long Life / Maintenance Free

- Only a small degree of capacity degradation occurs even after more than 20,000 cycles of 60A charging and discharging. Compared to lead acid batteries, SCiB™ requires less replacement and re-installation.



## Toshiba Infrastructure Systems & Solutions Corporation

Defense & Electronic Systems

72-34, Horikawa-cho, Saiwai-ku Kawasaki 212-8585, Japan Tel: +81-44-331-1760

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