



TECHNOLOGY
SOLUTIONS UK LTD
part of **HID**

APPLICATION NOTE: BATTERY USE AND STORAGE

Overview

TSL® use premium quality Lithium Ion and Lithium Polymer batteries in their RFID Reader products, sourced from manufacturers with a proven history of battery performance and reliability.

To maximise the battery life of these products, the following recommendations should be observed by both TSL® customers and distributors/resellers of TSL® Readers.

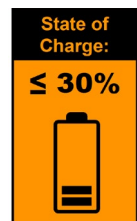
Environmental Specifications

TSL® Readers should be stored, charged and operated within the Environmental Specifications stated on the Reader Datasheet. Separate temperature ranges are given for storing, charging and operating the Reader. The Humidity and Electrostatic Discharge (ESD) of the environment should also be taken into account, and are specified on the product datasheet.

Failure to observe the Environmental Specifications will decrease battery performance and negatively affect the long term battery health, resulting in a reduced number of charge cycles over the battery's lifetime.

New Product - First Time Charge Required

To comply with international shipping regulations, all batteries included with TSL® products are discharged to a 'Float Charge' level that is less than 30% of their maximum capacity before shipping. It is therefore important that the Reader is fully charged before using it for the first time.



Long Term Storage and Maintaining the 'Float Charge' level

Most batteries are subject to self-discharge over long periods of time, due to chemical reactions inside the battery. If a TSL® Reader is being stored without use (e.g. by a distributor/reseller), it is particularly important that the Float Charge level is topped up to prevent the battery from becoming fully discharged.

If any TSL® Reader is stored for more than 3 months then **the battery must be recharged every 3 months.**

About

About TSL®



Technology Solutions UK Ltd (TSL®), part of HID Global, is a leading manufacturer of high performance mobile RFID readers used to identify and track products, assets, data or personnel.

For over two decades, TSL® has delivered innovative data capture solutions to Fortune 500 companies around the world using a global network of distributors and system integrators. Specialist in-house teams design all aspects of the finished products and software ecosystems, including electronics, firmware, application development tools, RF design and injection mould tooling.

TSL® is an ISO 9001:2015 certified company.



ISO 9001: 2015

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About HID Global



HID Global powers the trusted identities of the world's people, places and things. We make it possible for people to transact safely, work productively and travel freely. Our trusted identity solutions give **people** convenient access to physical and digital **places** and connect **things** that can be identified, verified and tracked digitally. Millions of people around the world use HID products and services to navigate their everyday lives, and billions of things are connected through HID technology. We work with governments, educational institutions, hospitals, financial institutions, industrial businesses and some of the most innovative companies on the planet. Headquartered in Austin, Texas, HID Global has over 4,000 employees worldwide and operates international offices that support more than 100 countries. HID Global is an ASSA ABLOY Group brand.

For more information, visit www.hidglobal.com.