

Technical Note TN-2552g - Excerpt

Shipping and Storing Tait Intrinsically Safe Batteries

20 August 2019

This Technical Note outlines support for Tait batteries. This is important where the timeframe from battery order to actual end-user delivery is more than a few weeks and all those handling or storing these batteries should be aware of the requirements to keep the batteries charged. While this is very important for Intrinsically Safe batteries the same rules apply to Standard batteries. Information here is extracted from TN-2552g on Tait Intrinsically Safe Radios.

Battery Charging

- Fully charge batteries when they are first received and especially within 14 weeks of the battery's Date of Manufacture. In the example below DOM is **1531** = year **2015** week **31**



- Li-Ion cells are only allowed to be (air) transported with a charge capacity up to 30%, however allowing the battery to sit for very long periods after this will cause an over-discharge which will further reduce its service life

Battery Storage

When not in use, batteries should be stored correctly to prolong their life.

These are Tait's recommendations:

- Remove the battery from the radio before storage as an attached radio will discharge the battery faster, even if powered-off
- Fully charge the battery
- Store the battery in cool conditions (5°C to 20°C)
Hotter ambient conditions may reduce service life
- Periodically re-charge the battery
 - At least every 6 months for Intrinsically Safe batteries
 - At least every 12 months for non-Intrinsically Safe batteries

Battery Known Issues and Limitations

- If an over-discharged battery is placed in the charger none of the LED's may illuminate. Leave the battery in for at least an hour. If it can be recovered, the charger will bring it up to the normal fast charging point which will then be indicated by the red LED.
This is especially prevalent with the original I/S Charger version (shown right).
- Insertion of an already fully charged battery into the charger may cause the orange 'fault' LED to illuminate – it will not charge including the maintenance top-ups. The battery will charge normally if re-inserted at lower levels of charge



Publication Information

Related Documentation	TN-2552g – TP9300 TP9400 IS Radios			
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	-	20 August 2019	Excerpt of battery information from TN-2552g	G Brenchley