

BLUE PUCK MESH BATTERY LIFE CURVES



WIREPAS

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1. CONDITIONS

The autonomy measurements in this document were carried out with the following input parameters:

- **Products:** BLUE PUCK ID MESH - BLUE PUCK ID+ MESH – BLUE PUCK BUZZ+ MESH

- **Mode :**
 - Mobile Beacon
 - Anchor

- **Transmission period :**
 - From 1 minute to 18 hours.

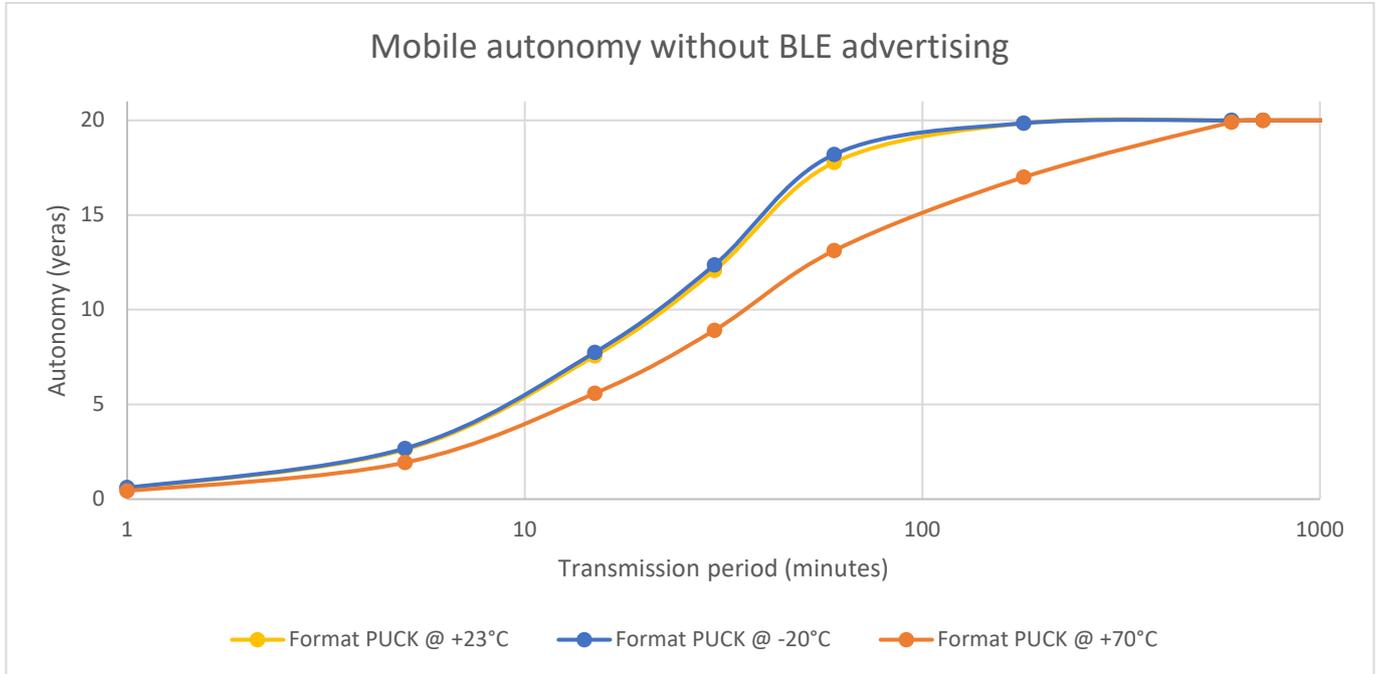
- **Network connection :**
 - Measurements carried out on objects activated and connected to a Wirepas MESH network.

- **Self-discharge :**

A 10% battery capacity discount is applied in the autonomy calculation. The battery's self-discharge, and the intrinsic lifespan of its chemical content, limit its use to 20 years, including in storage.

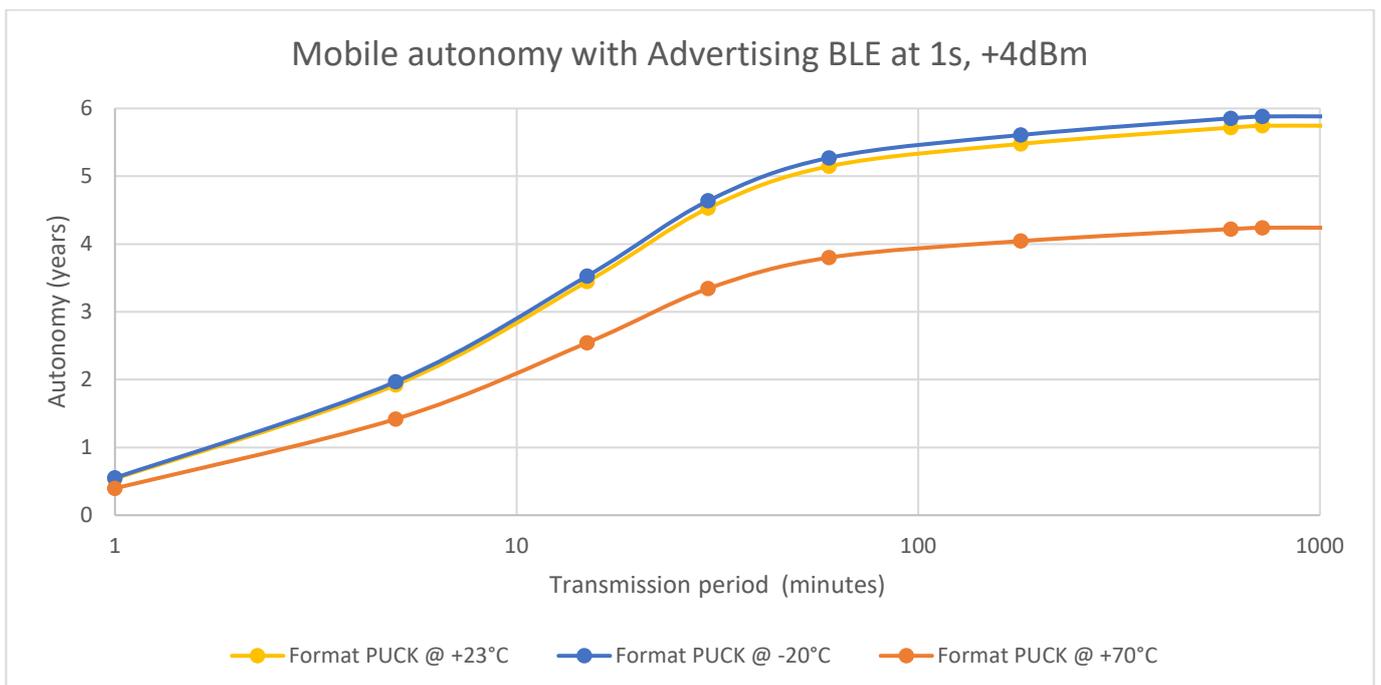
2. MOBILE BEACON BLUE PUCK ID MESH

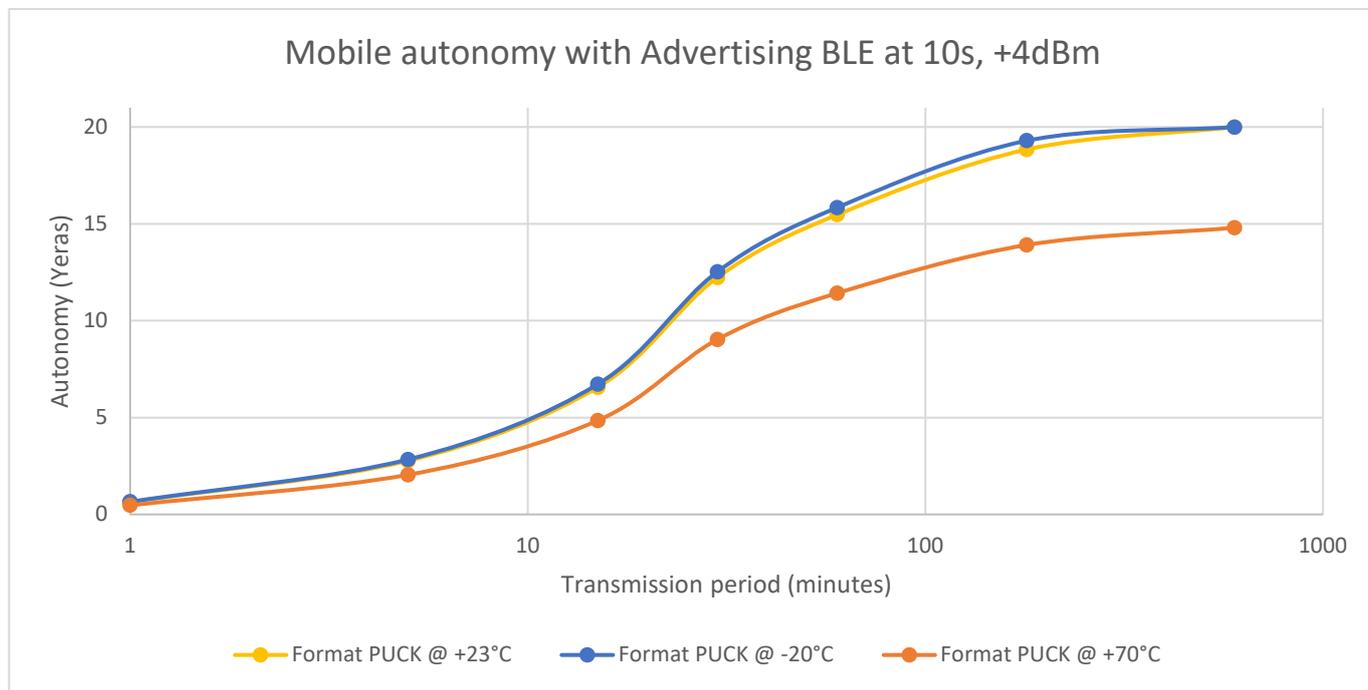
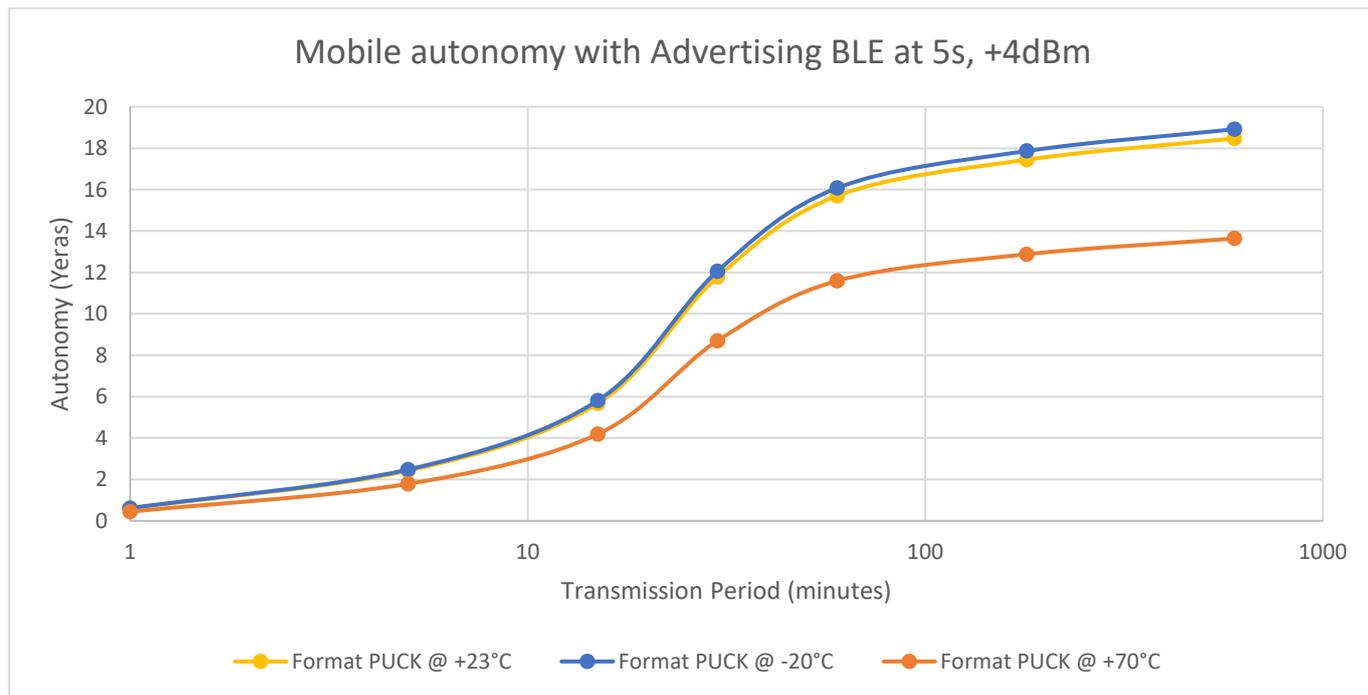
Autonomy values function of Transmission period and Temperature.



3. MOBILE BEACON BLUE PUCK ID MESH WITH BLE ADVERTISING

Autonomy values function of Transmission period, Temperature and BLE advertising period

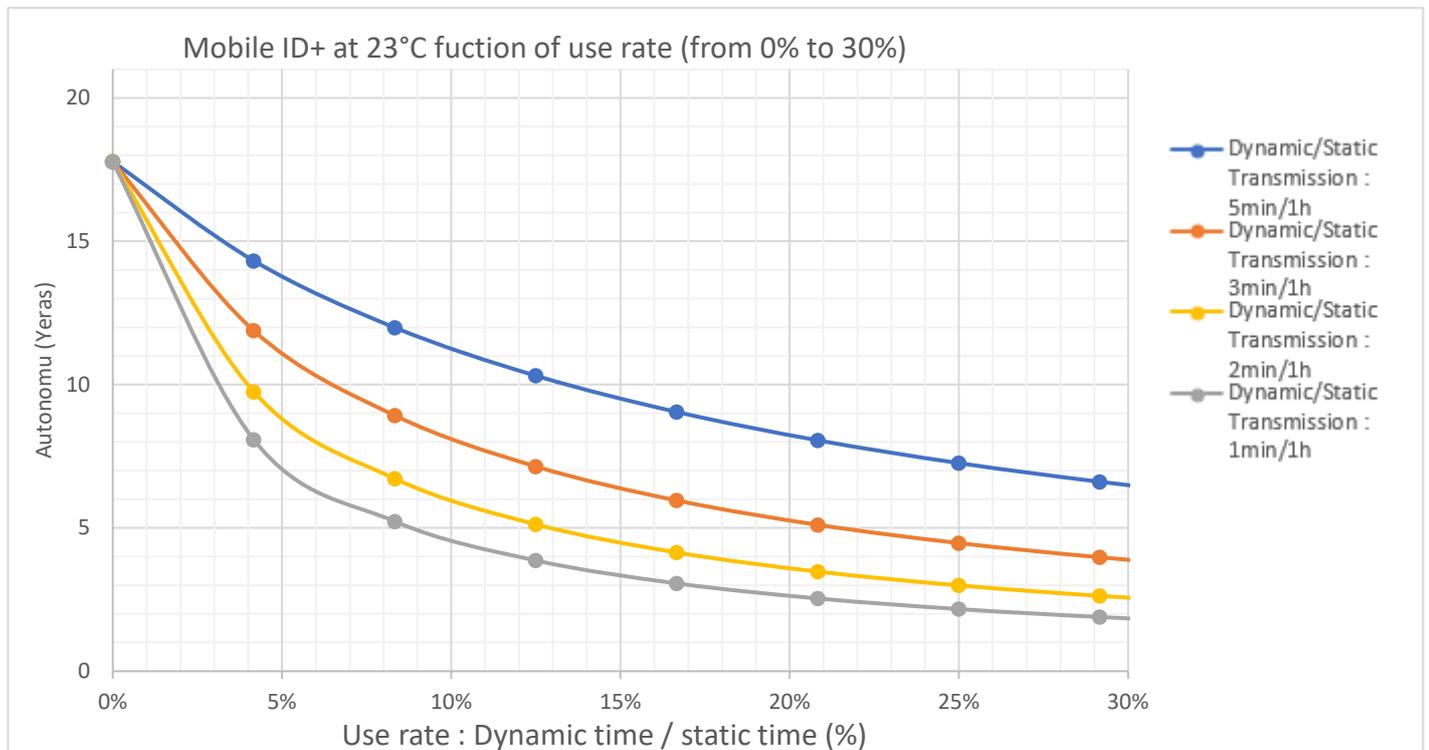
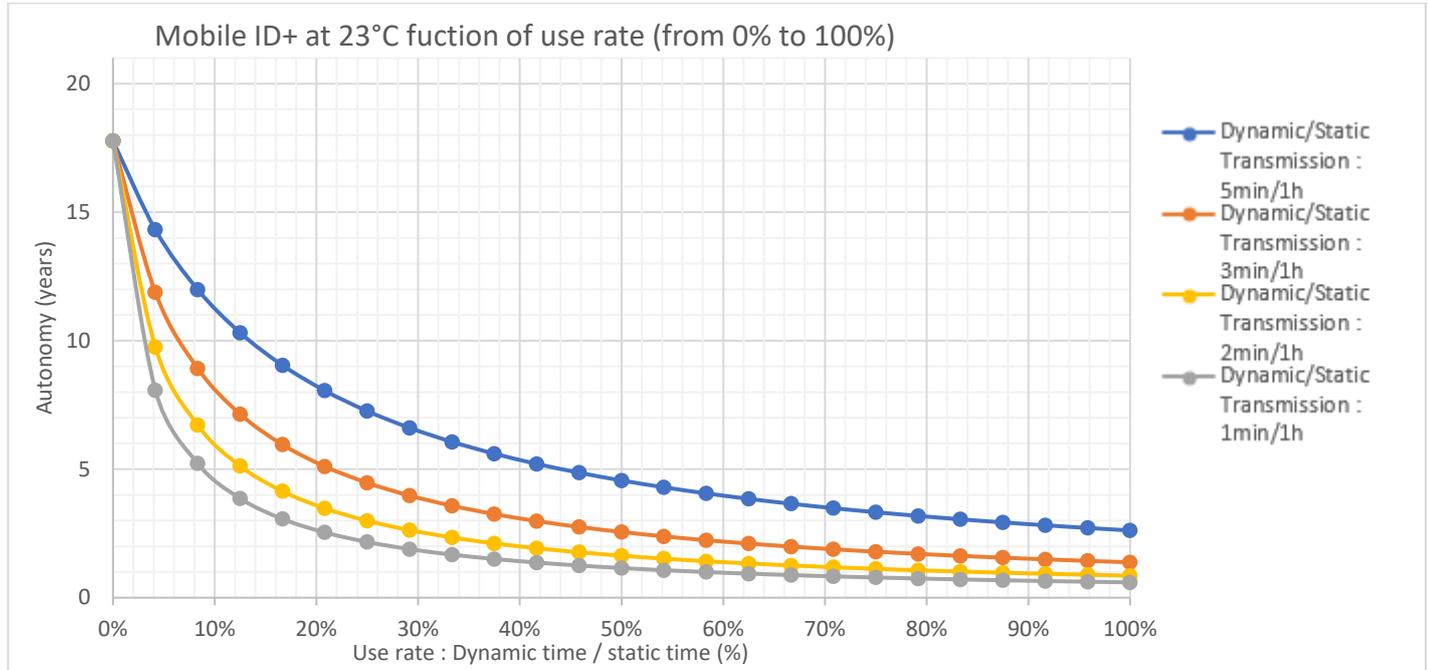




4. MOBILE BEACON BLUE PUCK ID+ MESH WITH SMART MOTION DETECTION MODE

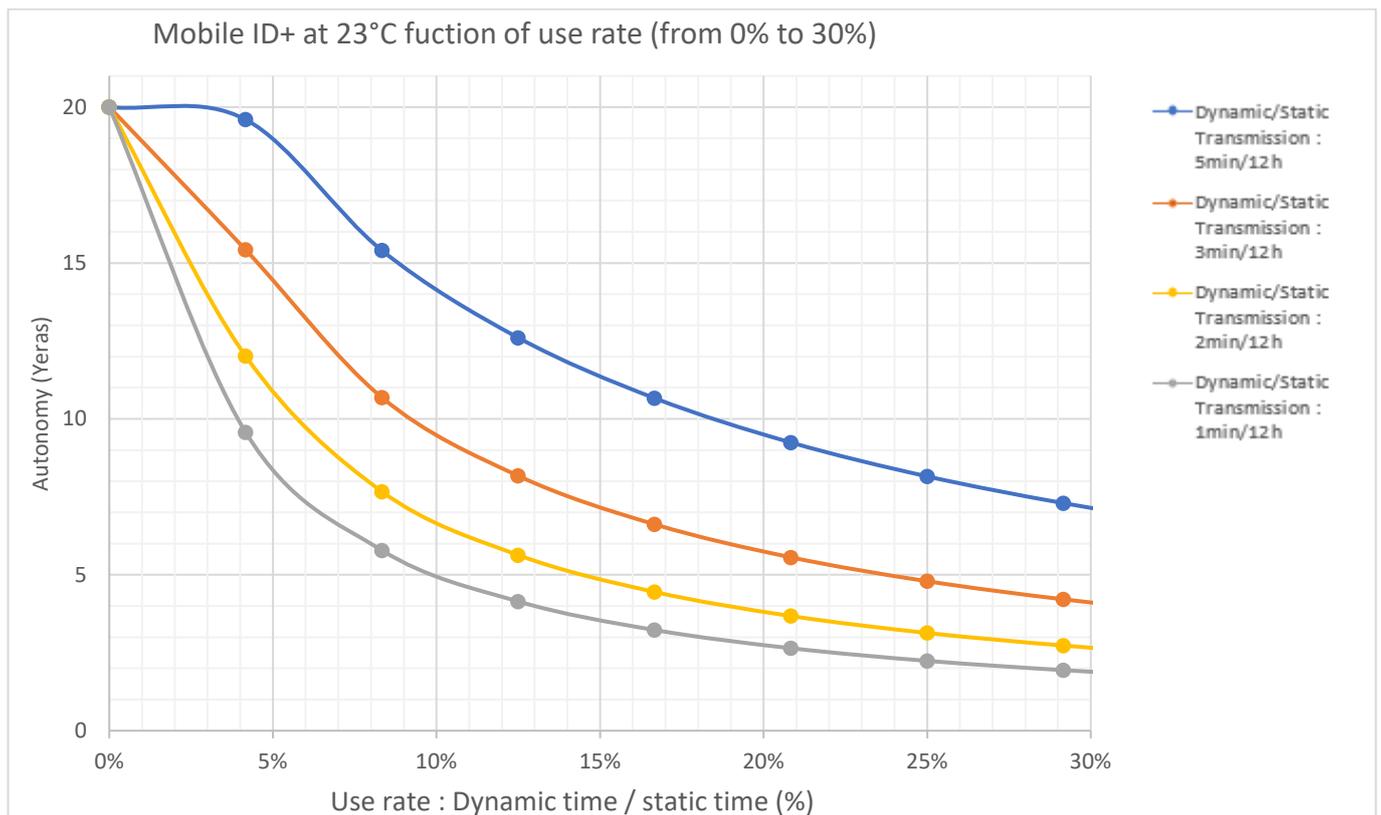
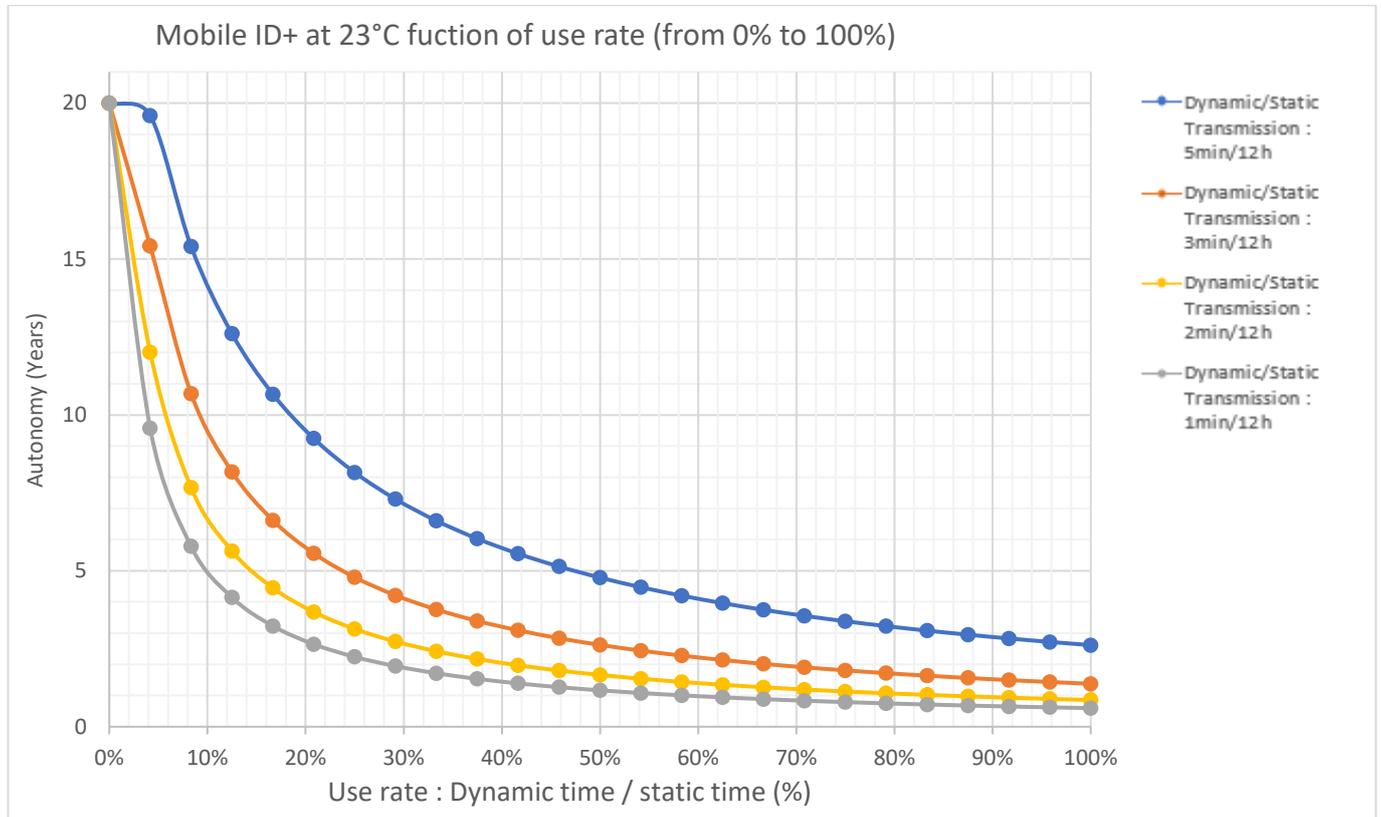
Transmission period when mobile is in Static mode: **1 hour**.

Transmission period when mobile is in Dynamic mode: 5 min – 3 min – 2 min and 1min.



Transmission period when mobile is in Static mode: **12 hours**.

Transmission period when mobile is in Dynamic mode: 5 min – 3 min – 2 min and 1min.



5. ANCHOR MODE

Temperature	Autonomy in Anchor mode without BLE advertising	Autonomy in Anchor mode with BLE Advertising (1s)
+23° C	3 years	2.5 years
-20° C	2.5 years	2 years
+70° C	2 years	1.5 years