

# BLUE PUCK MESH BATTERY LIFE CURVES



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## 1. CONDITIONS

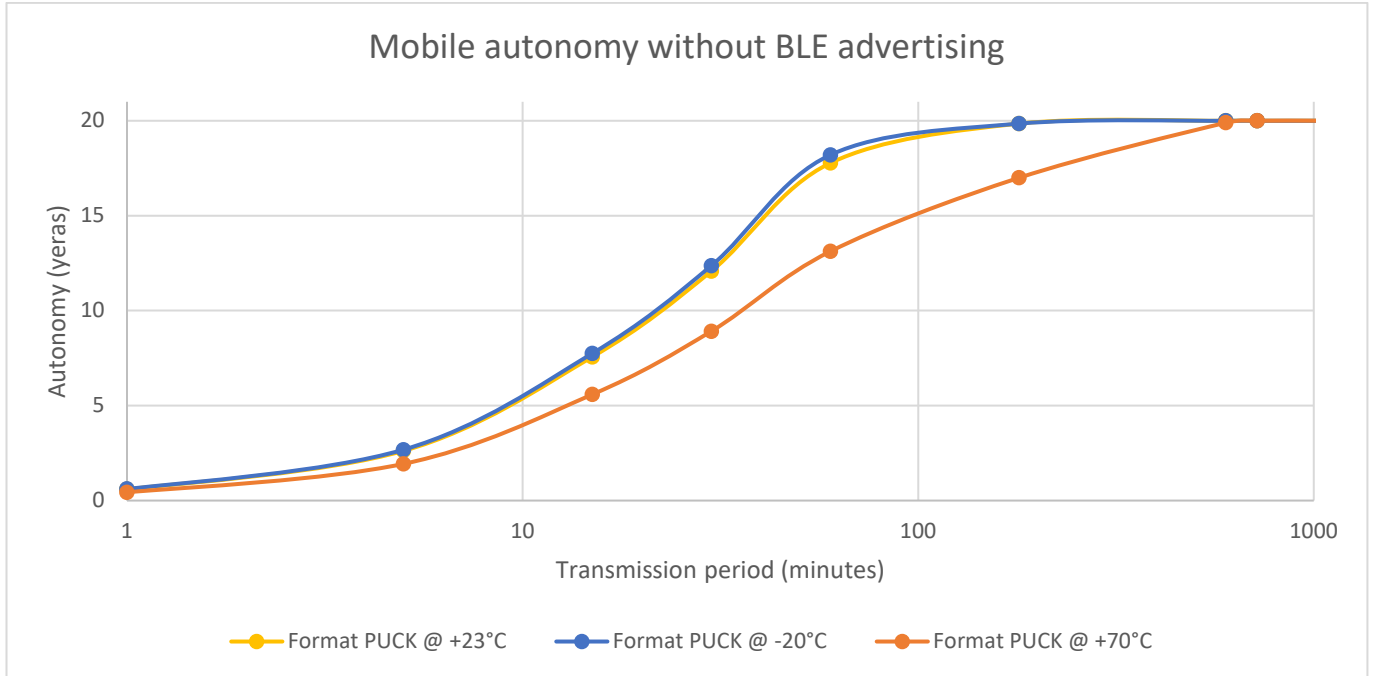
The autonomy measurements in this document were carried out with the following input parameters:

- **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.

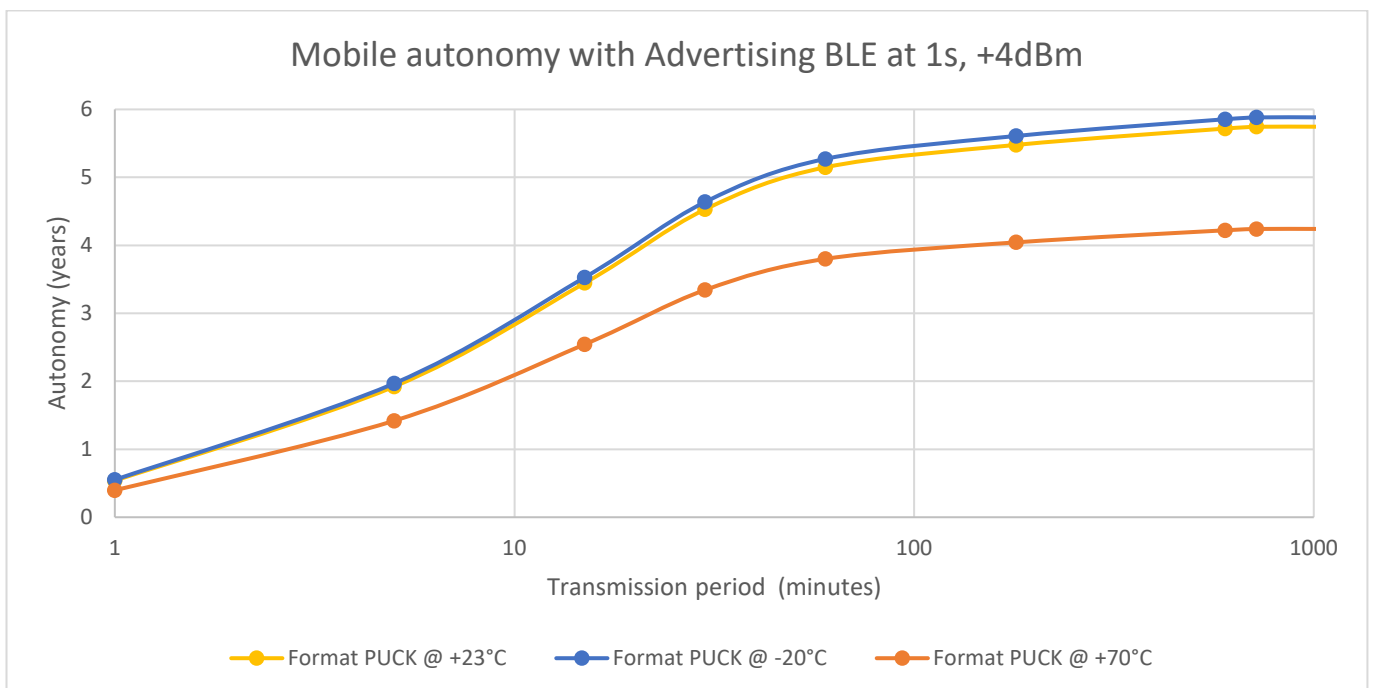
## 2. MOBILE BEACON BLUE PUCK ID MESH

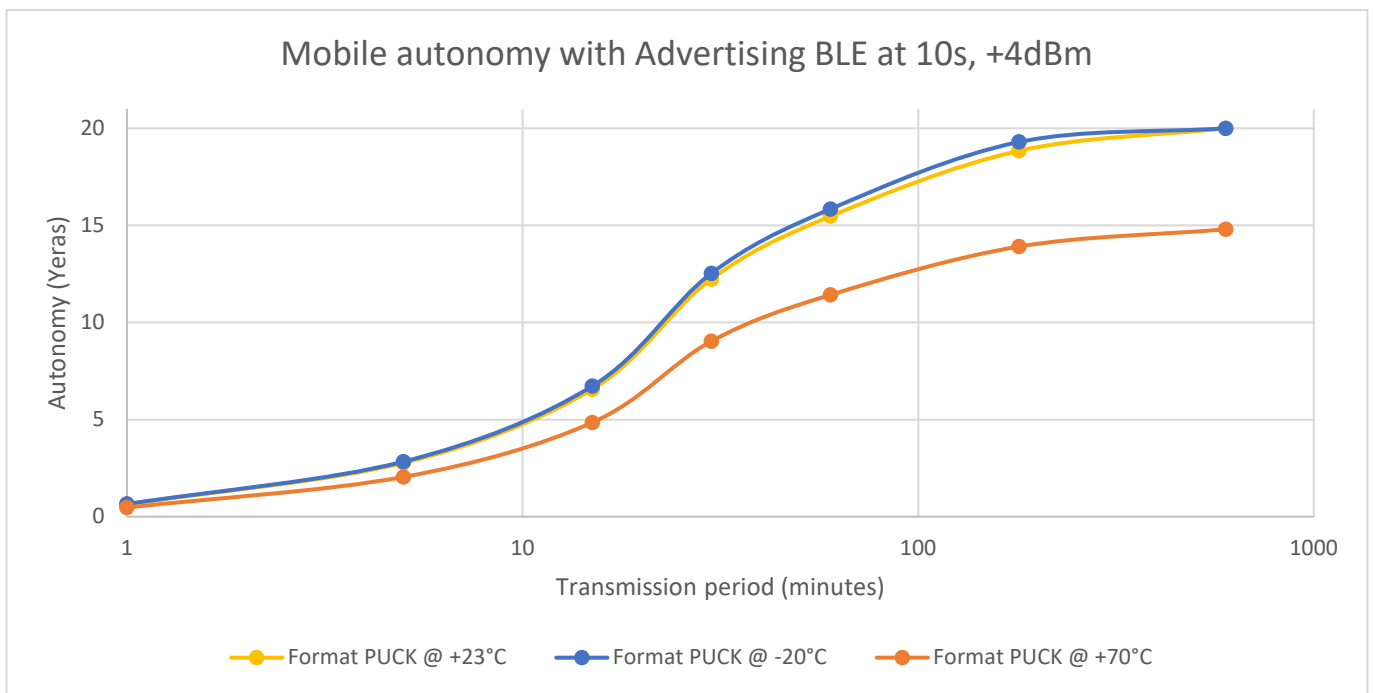
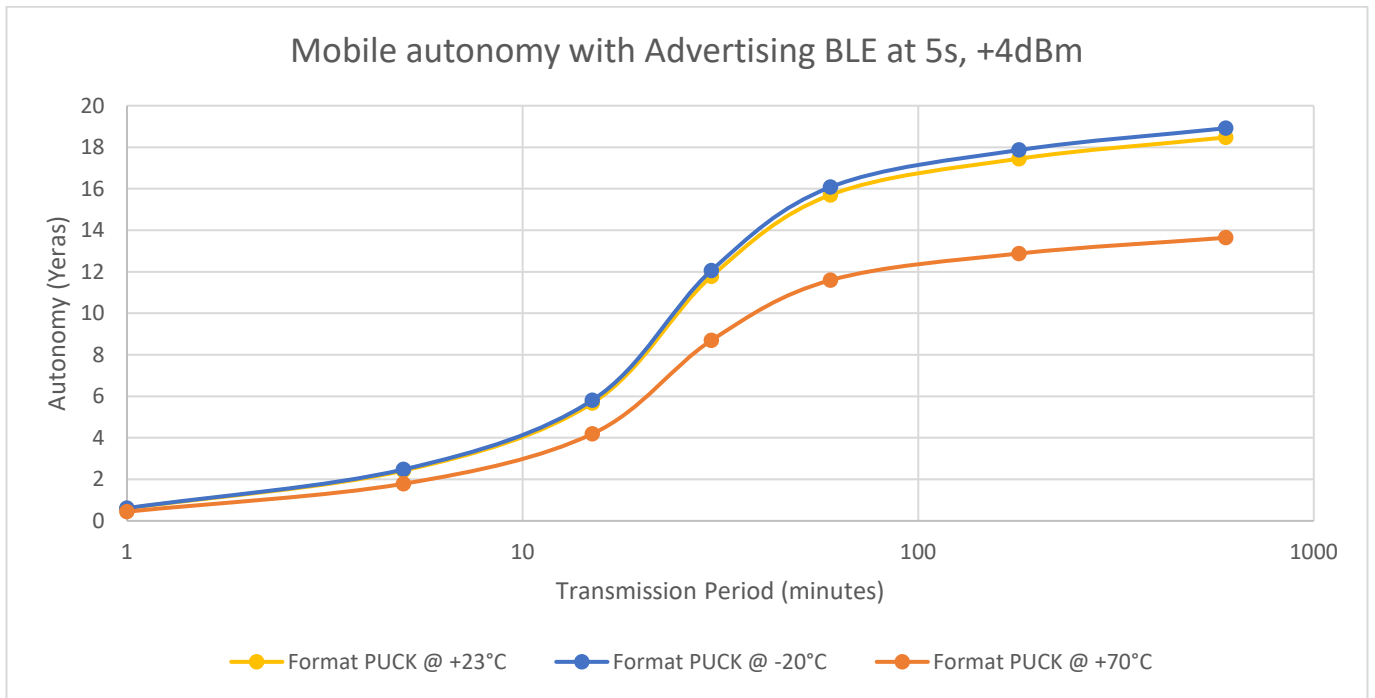
Autonomy values function of Transmission period and Temperature.



## 3. MOBILE BEACON BLUE PUCK ID MESH WITH BLE ADVERTISING

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

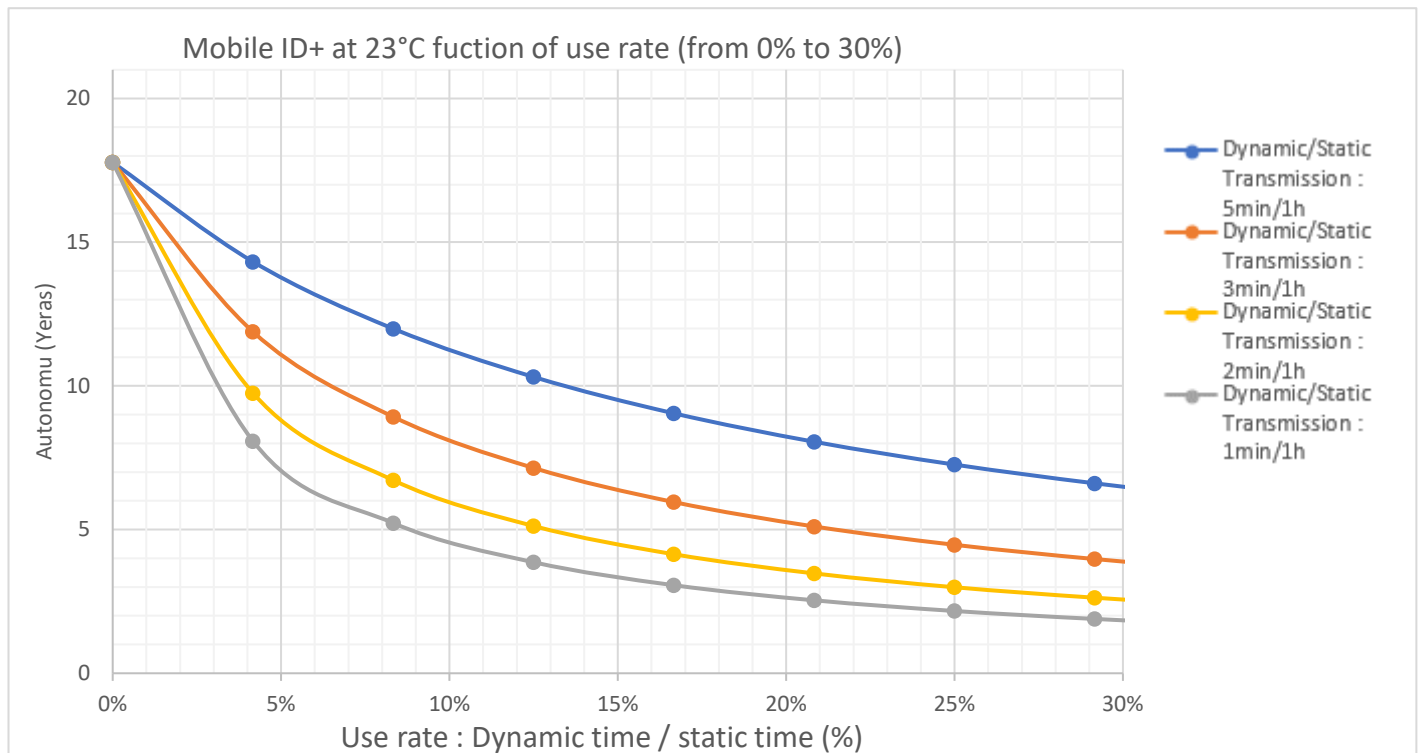
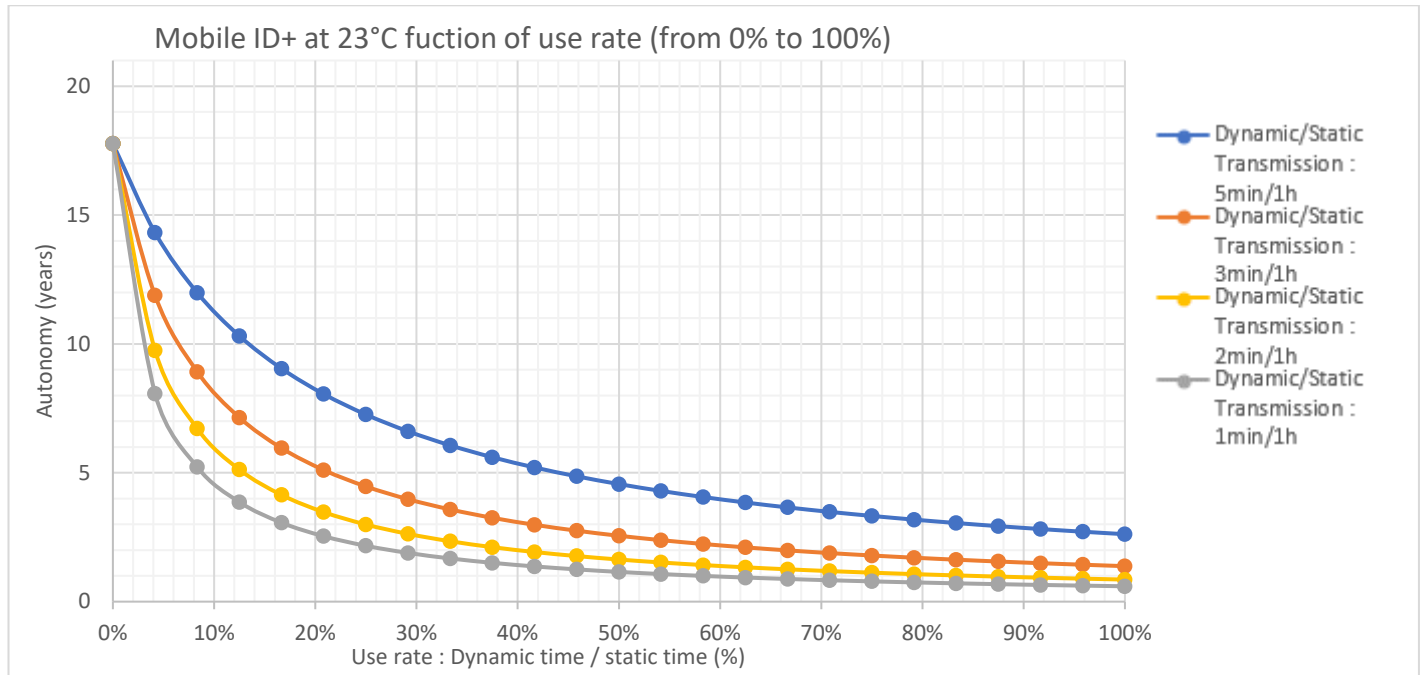




## 4. MOBILE BEACON BLUE PUCK ID+ MESH WITH SMART MOTION DETECTION MODE

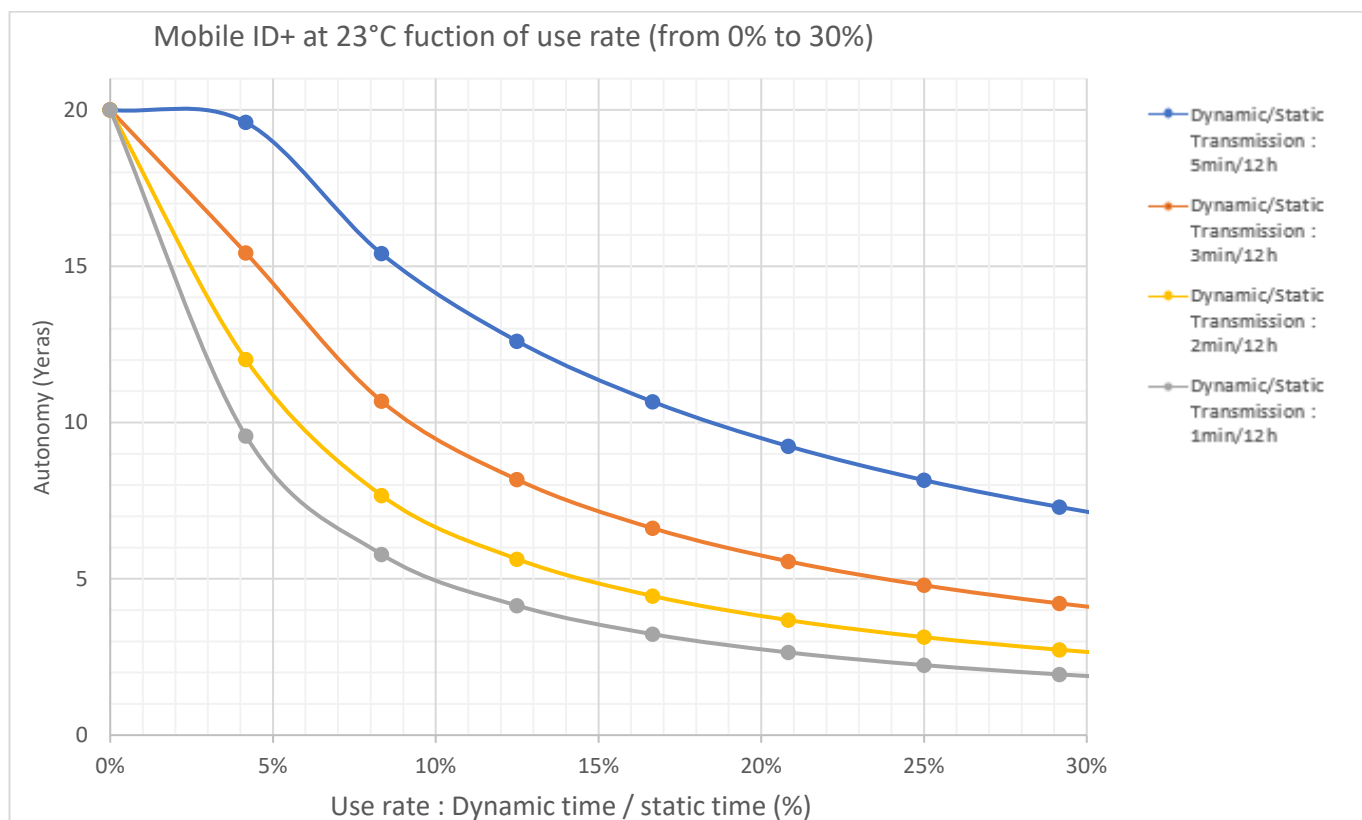
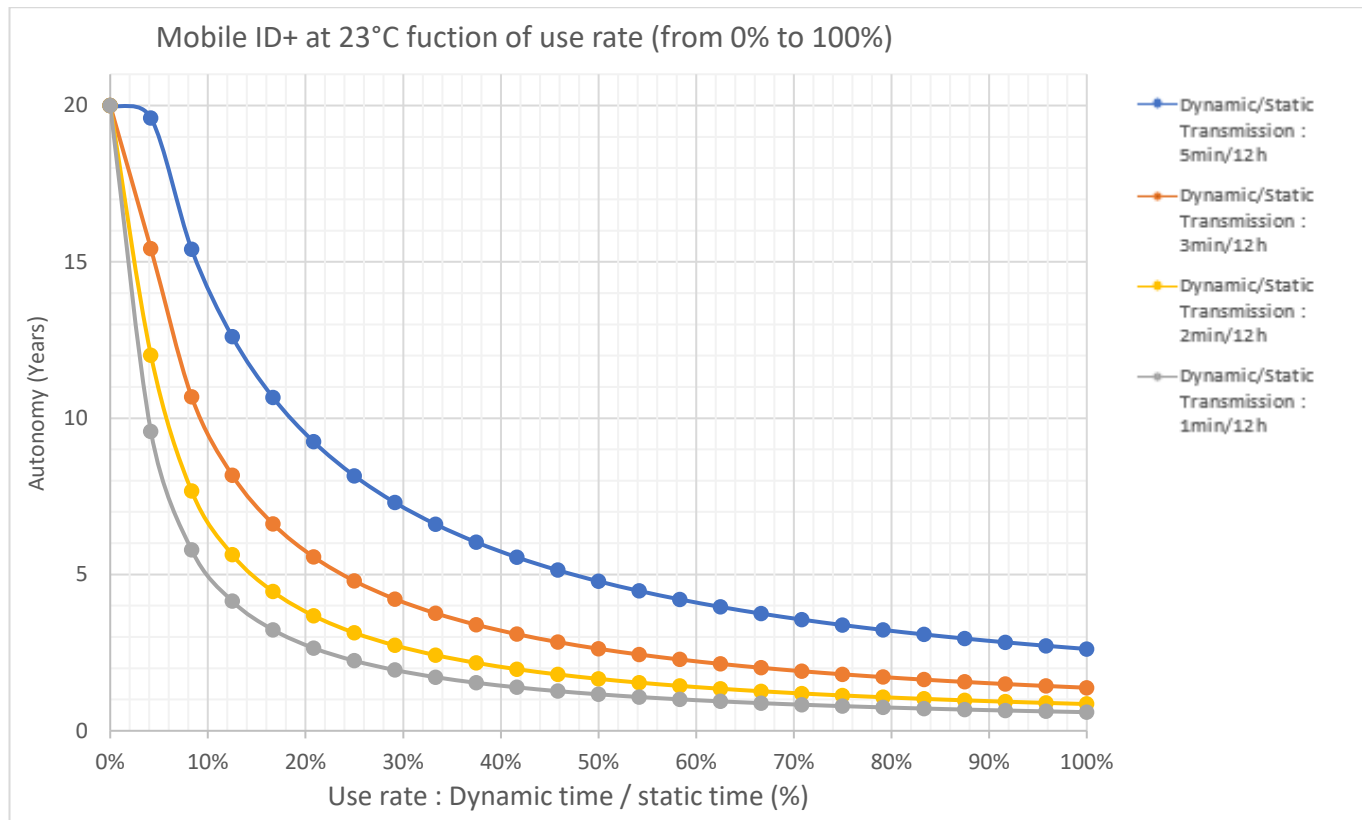
Transmission period when mobile is in Static mode: **1 hour**.

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**

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