

TECHNICAL BULLETIN TB05-2024-1 (Rev.1)

BATTERY LIFETIME ON BATTERY-POWERED

GMDSS PRODUCTS



Jotron annually manufactures more than 30.000 EPIRB, SART, and VHF battery packs (Lithium). So, batteries are never old in Jotron Stock. The battery types we use have less than 3% self-discharge per year.

Since introducing IMO MSC.471(101) compliant EPIRBs in 2022, we have updated-battery shelf life and expiry time for TRON 40AIS, TRON 60AIS, and TRON 60GPS.

Definitions:

- Shelf life: The time the product may be in stock from the manufacturing date until installed on a vessel.
- Service life: The maximum lifetime the product can be labeled to. (According to SOLAS req. of SBM)

Table 1

Product/Spare battery		Shelf life (months)	Service life (years)	Total (years)
EPIRB	Tron 40S MkII/	30	5	7,5
	Tron 40GPS MkII	30	5	7,5
	Tron 60S	24	5	7
	Tron 60GPS	18	"5/10" (Note)	11,5
	Tron 40VDR	30	5	7,5
SART	Tron SART	12	4	5
	Tron SART20	18	5	6,5
	Tron AIS-SART	18	5	6,5
VHF	Tron TR20 GMDSS	18	5	6,5
	Tron TR30 GMDSS	30	5	7,5
	Tron TR30 AIR	30	5	7,5
PLB	Tron SA20 has an 11-year battery lifetime (introduced in 2024).			

Products with grey background are obsolete products

Note: 10 years' service life applies only to vessels with no mandatory requirement.

Table 2: IMO MSC.471(101) compliant EPIRBs:

Product		Battery expiry date, (years) ¹	Service or SBM due date, maximum (years) ²
EPIRB	Tron 60AIS	11,5	5
	Tron 40AIS	7	5
	Tron 40VDR-AIS	7	5

¹ Battery expiry is calculated from battery's production date, useful time may be less than shown here due to transportation delays, and/or time in warehouse shelf.

² Shore Based Maintenance (SBM) due date shall be 4 or 5 years from installation (dependent of vessel flag), provided that this date is less than "Battery expiry" date

Jotron AS, 16th January 2025