Reserve silver-zinc combat battery

Type DM2A1 for SST4 and SUT torpedoes

Saft's type DM2A1 battery compact design has been improved several times, following specification evolutions and modifications called by the German Navy or STN Atlas, the torpedo manufacturer.

- 152 Ag-Zn cells (propulsion power)
- (20+1) Ag-Zn cells (auxiliary power)
- safety analogic device
- nitrogen tank
- electrolyte tank
- distribution circuit
- aluminium hull
- shock absorbing potting material.

The battery is activated by a pyrotechnic device, ignited by an external electrical signal. Pushed by compressed-nitrogen, the electrolyte fills the cells through a distribution system. The battery is then primed. Heating of the electrolyte is possible.



Key features

- External test plug
- Electronic technical manuals on CD-Rom

Applications

The Saft Ag-Zn battery type DM2A1 is the sole approved by the German Navy today. It has received the certification from STN Atlas for SST4 and SUT torpedoes. It is recognized as the most reliable and safest combat battery for SST4 and SUT torpedoes. Saft's type DM2A1 batteries are being successfully used by more than ten different navies worldwide, in particular in South America, Asia and Europe.

Electrical characteristics					
DM2A1 operation	High Speed	Medium Speed	Low Speed	Auxiliaries	
Voltage	210 V	114 V	85 V	30 V	28 V
Current	480 A	300 A	250 A	10 A	40 A
Autonomy	> 13 min	> 45 min	> 53 min	> 22 min	> 45 min
Mechanical characteristics					
Overall width (mm)					437
Overall height (mm)					467
Overall length (mm)					1733
Weight (kg)					402
References					
Saft part number					40121J
Compliance					NSN 6140 12 147 8873 and/or 6135 23 112 7702
Technical specification					279.632.860.TL

Safety

Saft torpedo batteries are designed for maximum safety. The new batteries for SUT and SST4 have the same self discharge features as the DM2A3 battery used by the German and Norwegian Navies. The most severe self discharge test is according to the German Military Standard MTV 6135-206, which requires the battery to have self discharged through its internal circuits (without external loads) within less than 72 hours after priming. Saft's type DM2A1 battery fulfils this standard. A safety analogic device watches the battery parameters in case of unintentional activation and during the normal operation.

Shelf Life

With continuously improved manufacturing methods for 30 years, Saft's new generation of Type DM2A1 battery easily surpasses the specified 10 years shelf life, with a typical 16 years. A systematic 16 years lifetime is offered through a lifetime extension program. This option reduces remarkably the life cycle cost. Saft's compact and sealed construction is ideal for long storage under tropical conditions.

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