Saft’s SEM 70 battery has a 6S1P configuration of D size Li-MnO₂ cells type M 20 with spiral electrode design. It is used as power source for the SEM 70 radio communication transceiver and features a proven shelf-life of 10+ years.

Benefits
- High drain and pulse capability
- High voltage response, stable even after long dormant periods
- No voltage delay
- Low self-discharge compatible with long shelf-life of 10+ years (less than 1% after 1 year of storage at + 20 °C)
- High energy density
- Lightweight
- Wide operating temperature range
- Superior resistance to corrosion
- Low magnetic signature

Key features
- Six M20SVBW cells (M 20 military version) in 6S1P configuration
- Safe, hermetic and non-pressurized cell construction with glass-to-metal seal, safety vent and stainless steel container
- Integrated state-of-charge indicator with LED display and push button
- Short-circuit proof due to integrated polyswitch
- Restricted for transport (class 9)
- Manufactured in Germany

Designed to meet all major quality, safety and environment standards
- Safety: UL 1642 (File MH 46385), IEC 60086-4
- Military: VG 96915-158 (German military standard)
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft World Class continuous program
- Environment: ISO 14001, RoHS and REACH compliant

Typical applications
- Radio communication

### Electrical characteristics
(Typical values related to batteries stored up to one year at + 30 °C max)
- Typical capacity [at 250 mA, +20 °C, 12.0 V cut-off] \(^{(1)}\) 11.0 Ah
- Open circuit voltage 19.8 V
- Nominal voltage (under 1 mA, at +20 °C) 18.0 V
- Nominal energy [at 250 mA, +20 °C, 12.0 V cut-off] 192 Wh
- Maximum continuous discharge current \(^{(2)}\) 2.0 A

### Operating conditions
- Operating temperature range -40 °C / +72 °C (-40 °F / +161 °F)
- Storage temperatures
  - Recommended +35 °C [+95 °F] max.
  - Allowable \(^{(3)}\) -55 °C / +72 °C (-67 °F / +161 °F)

### Physical characteristics
- Length 191 mm / 7.52 in
- Width 72 mm / 2.83 in
- Height (max) 38 mm / 1.50 in
- Battery case Plastic hard case
- Terminals Resilient sockets
- Battery weight 750 g
- Li metal content 21 g

### References
- Saft Part No. 4467080105
- NSN (NATO Stock No.) 6135-12-309-8604

\(^{(1)}\) Can vary depending on current drain, temperature and cut-off voltage.

\(^{(2)}\) Current limit of the polyswitch at +72 °C. Higher currents are possible at lower temperatures and for pulses. Consult Saft.

\(^{(3)}\) Long-time storage at high temperature may affect performance. Consult Saft.