

M777 Battery

Rechargeable Super Lithium Iron Phosphate battery

28V high energy super phosphate (SLFP) battery system

Saft's M777 battery is comprised of 16 high energy lithium iron phosphate cells in a 2P8S configuration and has a capacity of 80Ah. The battery will automatically charge when needed via an AC power source.

Benefits

- Very high vibration and shock resistance
- Maintenance free
- Fast re-charge capability
- No ventilation required

Safety

- Saft's SLFP iron phosphate chemistry
- Protection from over-discharge, overcharge (redundant), and overcurrent events
- Pressure compensated enclosure for flight
- Burst disk
- Carry handle (and used for stepping while installed)

Features

- MIL-STD-1275 compliant
- Arctic heating
- Reserve protection
- Internal AC charger
- Battle override
- Full suite of built-in tests
- Automatic balancing
- Communications protocol: J1939 CANBus

This battery has completed

- NAVSEA S9310 and SG-270 testing
- UN 38.3 Transportation Testing
- EMI/EMC: MIL-STD-461F & MIL-STD-1686C for sections: CS101, CS114, CS115, CS116, RE102, RS103, and ESD
- Vibration & Shock: Random RMS, Random Acceleration, and Shock SRS per MIL-STD-810G

Applications

- 28 V back-up power
- Exportable power
- Military / defense



Electrical characteristics

Voltage	Maximum OCV	30 V
	Cut-off	18 V
Energy		2.27 kWh
Charge rate		44 A maximum
Discharge rate ¹	Pulse	100 A
	Continuous	25 A

Mechanical characteristics

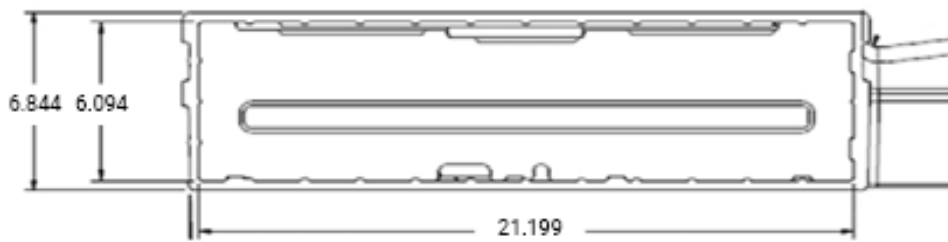
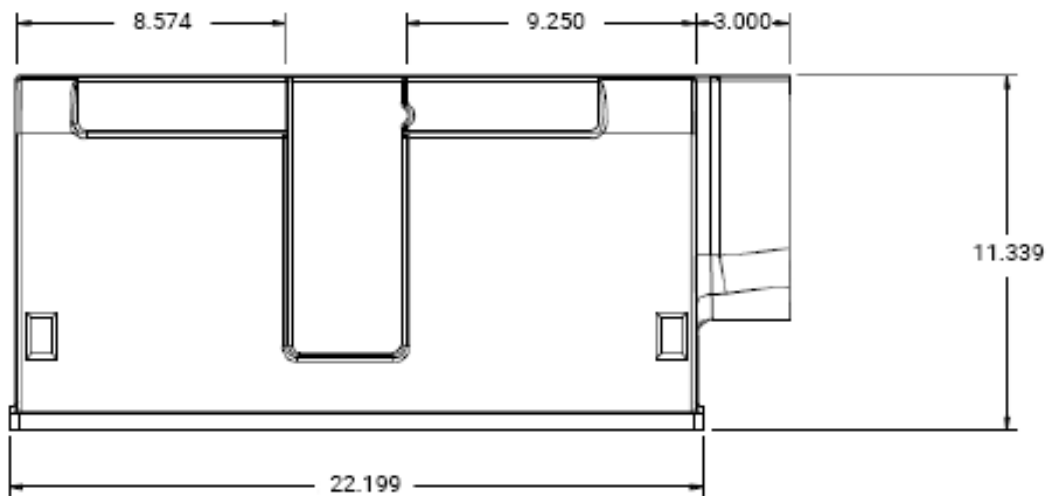
Height	178 mm (7 in)
Length	648 mm (25.5 in)
Width	368 mm (14.5 in)
Weight	37.2 kg (82 lb)

Operating conditions

Operating temperature ¹	-40°C to 60°C
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¹ Consult Saft for operations outside of the data sheet ranges

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Saft

26, quai Charles Pasqua
92300 Levallois-Perret - France
www.saft.com

Saft, a subsidiary of TotalEnergies SE
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RCS NANTERRE 383.703.873

