

Xcelion® 6T

Rechargeable Li-ion battery system

SUPER LITHIUM-IRON PHOSPHATE 6T HIGH PERFORMANCE BATTERY

One 24V Xcelion 6T® replaces two 12V Pbacid 6T batteries at a quarter of the weight and half the volume.

Saft's Xcelion 6T* is a 24V battery system that offers a drop-in replacement solution for legacy battery technology in military vehicles and other industrial applications.

This ruggedized battery uses Saft's proprietary Super-Phosphate® chemistry which is ideally suited for high performance applications requiring high levels of safety.



Benefits

- Significant weight savings and life cycle costs compared to lead-acid chemistries
- Maintenance free
- Drop-in replacement for current vehicle batteries
- · Commercial off-the-shelf solution
- Communicates over J1939 CAN Bus protocol
- Compatible with MIL-STD-1275E power bus

Features

- · Built-in self-balancing
- Fast charging under varying conditions*
- · Self shut-down in unsafe conditions
- · Internal battery management system

Applications

- · Military ground vehicle power
- · Starting, lights, and ignition (SLI)
- · Silent watch
- Applications requiring balance of power and energy

Electrical characteristics	
Nominal capacity	60 Ah
Nominal voltage	26.4 V
Voltage at full state of charge	30.0 VDC
Voltage at zero state of charge	20.0 VDC
Energy	1.6 kWh
Cold cranking amps (CCA) at -18°C for 30 seconds at -40°C for 30 seconds	1,100 A 400 A
Maximum discharge current Continuous Pulse	400 A 3,000 A
Mechanical characteristics	
Weight	20.7 kg
Height	230 mm
Width	256 mm
Length	269 mm
Operating conditions	
Operating temperature Discharge Charge*	-40°C to +60°C
Storage and transportation temperature**	-46°C to +71°C

*Battery manages charge energy to esure maximum battery life. At low temperature the battery will automatically engage built-in heaters for optimum charging.

**Sustained high temperature storage will reduce life.





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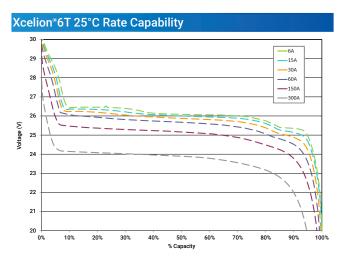
NATO STOCK NUMBER: 6140-99-380-7294

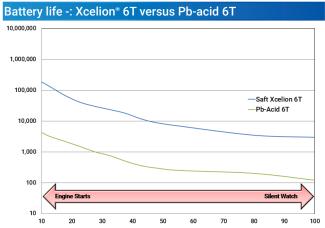
Top level system functions

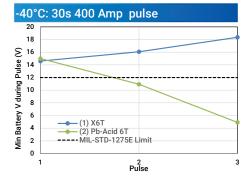
- Graphical User Interface Tool allows detailed view of battery status
- Communication of battery state of charge, temperature, and other key parameters via J1939 CAN Bus
- Redundant overcharge protection
- · Overload protection
- · Short circuit protection
- Over-discharge protection
- Battery reserve protection (preserves energy for engine start)
- · Battery monitoring
- · Built-in-Test
- Cell heating (allows full battery capability over operating temperature)
- · Continuous cell balancing

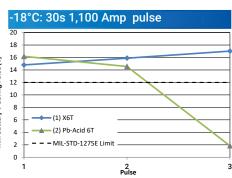
Safety heritage

- System design includes Saft's field proven electronic control architecture that includes overcharge protection, and over discharge, over temperature and overload protection.
- Cells equipped with hermetic seal and over pressure safety vent.
- Rechargeable Li-FePO4 cells ideally suited for applications requiring high discharge, continuous or pulse power, fast re-charge, long cycle and calendar life, and high levels of safety.











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