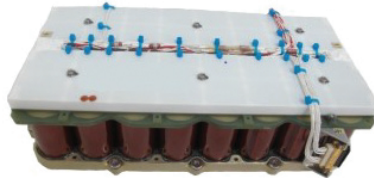


Saft solution for LEO and small GEO applications

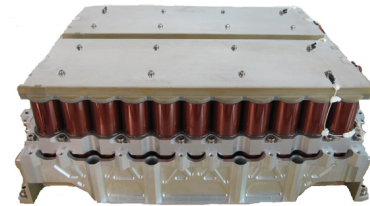
Based on Saft VES16 Li-ion cell

Systems specifically designed for LEO and small GEO applications

The battery is based on VES16 space cells designed for LEO and small GEO applications between 30W to 12KW depending battery configuration. The batteries and cells ensure long life and high DOD. More than 80 spacecrafts are in orbit with VES16 batteries



VES16 8s4p battery



VES16 11s16p battery



VES16 cell

Benefits

- Use of flight proven VES16 cells providing long life in LEO and GEO applications up to 18 years
- SP architecture (strings in parallel)
- Compact and scalable configuration in s and p
- Reliability and safety

Key features

- Circuit breaker and venting at cell level
- Heaters
- Thermal sensors
- Connector for power and telemetry
- Aluminum plate
- Individual cell balancing system (SBS)
- High DoD (80% in GEO, 30% in LEO)

Pulse capabilities

- High mission use energy density
- Cell stainless steel casing
- Hermetically sealed
- Manufactured in EU
- Certification ECSS standards

Cell electrical characteristics	
Nameplate capacity	4.5 Ah
Energy	16 Wh
Cell physical characteristics	
Diameter	33 mm
Height	60 mm
Weight	0,155 kg

LEO configuration	8s4p
Reference energy	512 Wh
Battery voltage range	25 - 32.8 volts
Nameplate capacity	18 Ah

Mechanical characteristics	8s4p
Length	308 mm
Width	180 mm
Height	90 mm
Weight	5,80kg

GEO configuration	11s16p
Reference energy	11,264 Wh
Battery voltage range	9.7 - 45.1 volts
Nameplate capacity	288 Ah

Mechanical characteristics	11s16p
Length	440 mm
Width	397 mm
Height	170 mm
Weight	28,8 kg

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