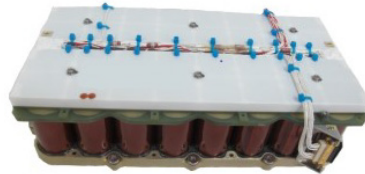


# Soft solution for LEO and small GEO applications

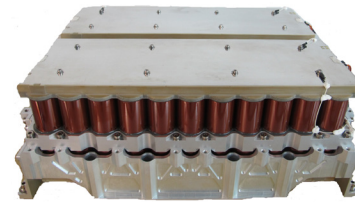
## Based on Saft VES16 Li-ion cell

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 (Ah)	4.5
Energy (Wh)	16

#### Cell physical characteristics

Diameter (mm)	33
Height (mm)	60
Weight (kg)	0.155

#### LEO configuration

Reference energy (Wh)	512
Battery voltage range (V)	25 - 32.8
Nameplate capacity (Ah)	18

#### Physical characteristics

Length (mm)	308
Width (mm)	180
Height (mm)	90
Weight (kg)	5.0

#### GEO configuration

Reference energy (Wh)	11,264
Battery voltage range (V)	29.7 - 45.1
Nameplate capacity (Ah)	288

#### Physical characteristics

Length (mm)	440
Width (mm)	397
Height (mm)	170
Weight (kg)	28.8

### Saft

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