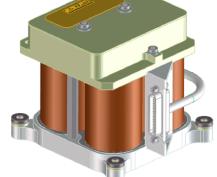
4S1P VES16 battery

Saft's standard design for space applications

Battery specifically designed for Low Earth Orbit applications

The battery is based on VES16 space cells designed for LEO applications. This battery is sized for low power needs, such as microsats and nanosats, and can be used as a building block and assembled in serial and parallel for higher energy requirements.



Benefits

- Use of flight proven VES16 cells providing long life in LEO application up to 12 years
- Compact adaptable configuration
- Low cost design
- Reliability and safety

Equipment

- Circuit breaker at cell level
- Heater
- •Thermal sensor
- •MDMA 37P connector for power and telemetry
- Aluminium plate

Key features

- High mission use energy density
- Stainless steel casing
- · Hermetically sealed
- Maintenance free
- No memory effet
- · Manufactured in EU
- Certification ECSS

Saft

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Electrical caracteristics	
Nameplate capacity	4.5 Ah
Battery voltage range	13.2— 16.4 V
Nominal energy	64 Wh
Physical characteristics	
Length (mm)	90,5
Witdh (mm)	84,1
Height (mm)	77
Weight (kg)	0,70
Operating conditions	
Recommanded cycling temparatures	[10°C ; 30°C]
Maximum charge current	C/2 at 20°C
Maximum continuous discharge current	Continuous C Pulse 2C
Life duration and cycle life	More than 5 years >25 000 cycles
Charging method	Constant current/ current voltage
Charging voltage recommanded end of charge voltage for mission	16.1 V
Storage & transportation temperatures	Recommanded -20°C to +10°
temperatures	Allowable -20°C to +40°C

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Allowable -20°C to +40°C