Rechargeable lithium-ion battery

SAI 2590

The battery consists of two independent strings of 4 VL 37570 cells connected in a series. The strings can be connected externally by the connector interface in either series or in parallel.

Benefits

- Extended autonomy and life for mobile systems
- Wide operating temperature range
- Recommended for ruggedized designs
- Easy integration into compact and light systems
- Excellent low temperature performance
- Maintenance-free
- Light weight

Kev features

- Built in battery state of charge indicator (SOCI)
- Long cycle life (over 85% initial capacity after 225 cycles 100% DoD)
- · Resettable electronic protection circuit on each string
- · Cells include a circuit breaker, shutdown separator and safety vent
- In line current fuse short circuit protection: 15A slow blow in each section
- Excellent charge recovery after long storage, even at higher temperatures
- Restricted for transport (class 9)
- Made in the USA

Typical applications

- · Military and civil portable radio communications
- Robotics
- Unmanned underwater vehicles
- Unmanned aerial vehicles
- Remote control electronics
- Autonomous surveillance equipment
- Autonomous remote sensor devices



Electrical characteristics	
Nominal voltage (at 500mA) (V)	14.4 or 28.8
Typical Capacity (Ah) +21 °C / + 70 °F	11.6 or 5.8
Mechanical characteristics	
Typical Weight (kg/lbs)	1.36 / 2.99
Max. Width [mm/ in]	111.76 / 4.4
Max. Height (mm/ in)	127 / 5
Max. Depth (mm/ in)	62.23 / 2.45
Battery Case	Plastic
Operating conditions	
Charge method	constant current/constant voltage
Max. recommended charge current	5A / 10A
Charge temperature range +	0°C to +50°C
Max. discharge current*	8A / 16A
Discharge temperature range	-30°C to +60°C
References	
Connector	6 Female socket per SC-C-179495
Mating Connector	ITT CA110821-6

⁺ Consult Saft for optimized charging below 0°C

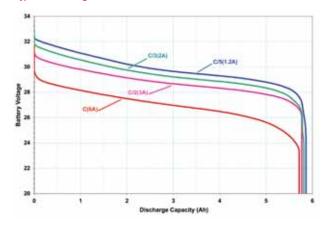
^{*} At current above 6A/string and depending on the ambient temperature, run time may be limited due to self-heating.



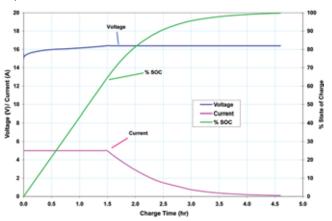
SAI 2590

4.40 in *0.000 [111.8 mm *0.000 [127 mm *0.0

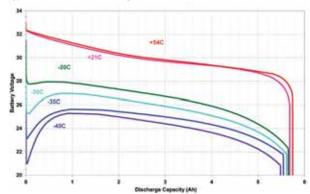
Typical discharge curves at 20°C



Typical charge profile - 5A (0.4C rate) charge input in parallel connection at 20°C



Typical curves: 1A discharge



Saft Specialty Battery Group

12, rue Sadi Carnot 93170 Bagnolet - France Tel: +33 (0)1 49 93 19 18 Fax: +33 (0)1 49 93 19 69

313 Crescent Street Valdese, NC 28690 - USA Tel: +1 (828) 874 4111 Fax: +1 (828) 874 2431 Doc. N° 54059-2-1107

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