# Li-SO<sub>2</sub> primary battery system BA 5590 High capacity

20% more capacity than regular BA 5590 B/U battery

10 L0 26 SXC cells connected in 2 groups of 5 cells in series providing 2 nominal 12 V sections at connector. These sections can be connected in series (for 24 V) in parallel (for 12 V) or used as two separate 12 V units.

## Key features

- A non-replaceable fuse is incorporated in the negative leg of each series group of cells.
- A normally closed high temperature switch or thermal fuse is incorporated into each series group of cells to protect against overheating.
- A diode is incorporated into the positive leg of each series group of cells to prevent charging or flow of current into the battery.
- A device consisting of a manually activated pull tab and resistors designed to discharge the battery to O V is built into the battery.

## Typical applications

- AN/PRC-104 Radio
- AN/PRC-113 Radio
- AN/PRC-117 Radio
- AN/PRC-119 Singcars Radio
- KY-57, KY-65 Encryption Set
- REMBASS Remotely Monitored
  Battlefield Surveillance System
- PLRS Position Locator and Reporting System
- RT-991 Buoy Radio
- RT-1175 Buoy Radio
- AN/TAS-4A TOW Night Sight

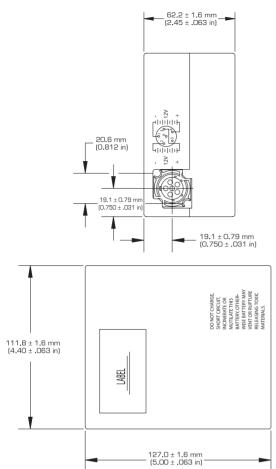


### Electrical characteristics

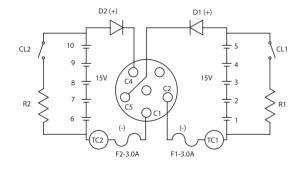
Typical OCV (V)		15.0 or 30.0
Nominal voltage (at 500 mA) (V)		13.5 or 27.0
Cut-off (V)		10.0 or 20.0
Typical capacity +21°C/+70°F		18.2 Ah at 12 V
(at 250 mA discharge current)		9.1 Ah at 24 V
Operating temperature		-40°C to +71°C
		-40°F to +160°F
Storage	Recommended max	+35°C / +95°F
	Possible	–40°C to +71°C / –40°F to +160°F
Physical characteristics		
Typical Weight (g/oz)		1000 / 35.3
Weight of Li metal content (g/oz)		27 / 0.95
Width (mm/in)		62.2 / 2.45
Height (mm/in)		111.8 / 4.40
Depth (mm/in)		127.0 / 5.00
Battery Case		Plastic
References		
Mating connector		ITT Cannon CA 110821- 6
Reference specifications		MIL PRF 49471B or Saft Standard Specification



#### BA 5590 HC dimensions



#### **Electrical schematic**



## Saft Specialty Battery Group

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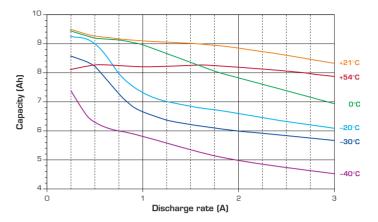
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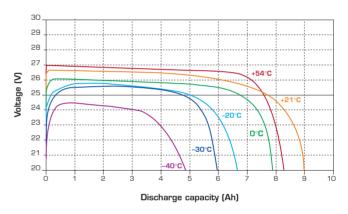
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#### Capacity vs rate at various temperatures







Typical discharge curves at various rates at +21°C/+70°F

