

Primary lithium battery system

BA 5590 B/U

12 V Primary lithium sulfur dioxide (LiSO₂) battery

The battery consists of 10 LO 26 SX 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 0 V is built into the battery

Typical applications

- AN/PRC-104 Radio
- AN/PRC-113 Radio
- AN/PRC-117 Radio
- AN/PRC-119 Sincgars Radio
- AN/PRC 150
- 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	12 V mode	24 V mode
Maximum OCV	15 V	30 V
Nominal voltage (at 500 mA)	13.5 V	27 V
Cut-off	10 V	20 V
Typical capacity +21°C / +70°F (at 2 A discharge current)	15 Ah at 12 V 7.5 Ah at 24 V	
Operating temperature	-40°C to +71°C / -40°F to +160°F	
Storage (Recommended max) (Possilbe)	+35°C / +95°F -40°C to +71°C / -40°F to +160°F	

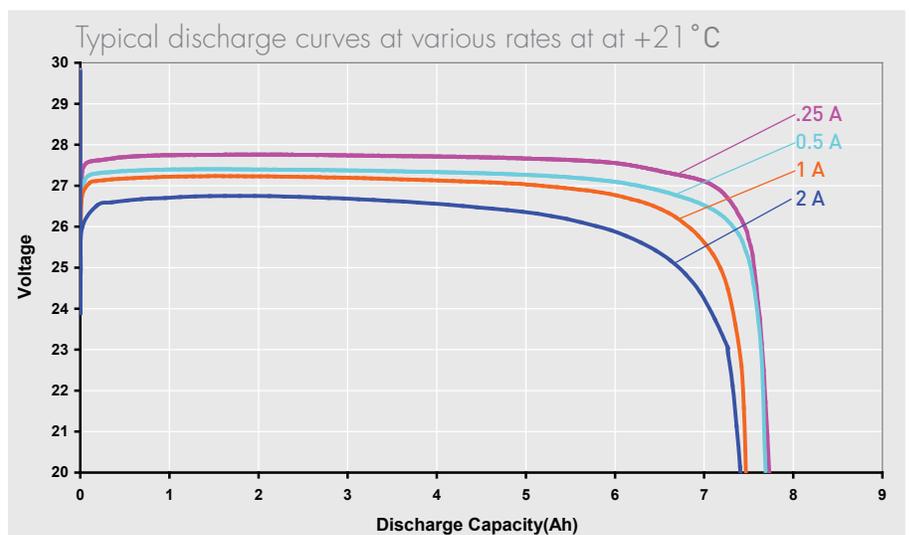
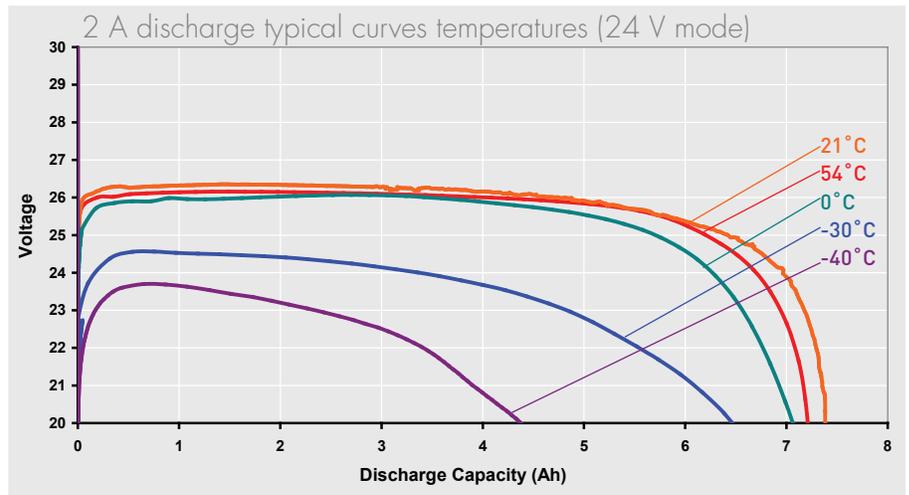
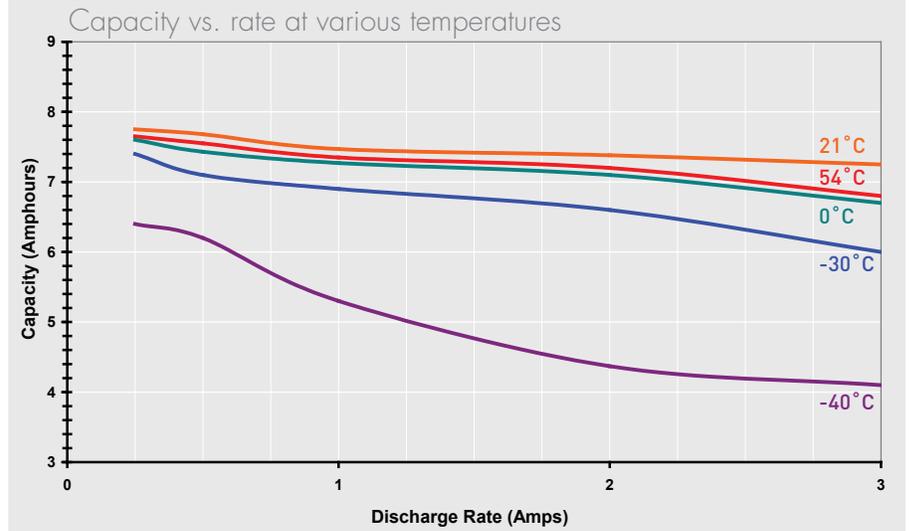
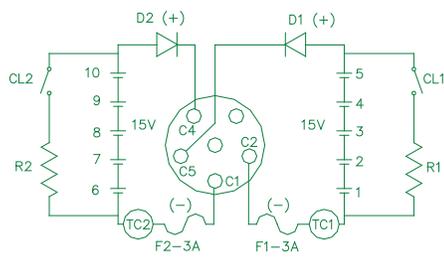
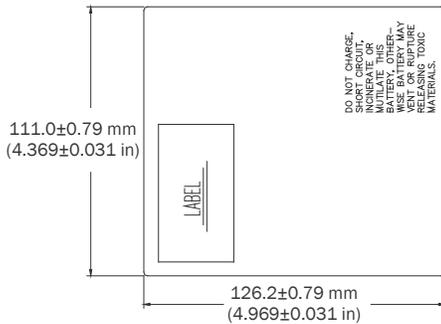
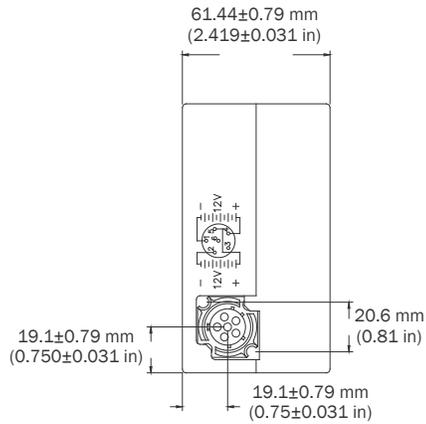
Physical characteristics	Metric	Imperial
Typical weight	1,000 g	35.3 oz
Weight of Li metal content	24.0 g	0.85 oz
Width	62.2 mm	2.45 in
Height	111.8 mm	4.40 in
Depth	127.0 mm	5.00 in
Battery case	Plastic	

References		
Mating connector	IT Cannon CA 110821-6	
Reference specifications	MIL PRF 49471B or Saft standard specification	
Nato Stock Number (BA 5590/U)	6135-01-036-3495 6135-01-438-9450	



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