

LITHIUM/ SULFUR DIOXIDE PRIMARY BATTERY SYSTEM

BA-5800/U
NSN: 6665-99-760-9742

Physical Specifications

| | |
|---------------|--------------------------|
| Weight (max): | .50 lbs; 220 gr. |
| Weight of Li: | 4.8 gr. |
| Dimensions: | Figure 1 |
| Battery Case: | Mylar sleeve or PVC Tube |

Electrical Specifications

| | | |
|---------------|------------------------------|-----------|
| Construction: | 2 cells connected in series. | |
| Voltage: | Nominal OCV: | 6.0 volts |
| | Max. OCV: | 6.1 volts |
| | Nominal (@ 240 mA): | 5.6 volts |
| | Cut-off: | 4.0 volts |

*Note: Start-up voltage delay to 3.8 volts at -30°C is 60 seconds.

Rated Capacity (at 240 mA discharge): 70°F (21°C): 7.5 Ah
-20°F (-29°C): 5.75 Ah

| | |
|--------------------------|---|
| Fuse: | A slow blow 2.25 Amp non-replaceable fuse is incorporated in the negative leg. |
| High Temperature Switch: | A normally closed high temperature switch or thermal fuse is incorporated in the negative leg of the series string of cells. It will open at 91°±4°C (189°-196°F) and is non-resetable and non-replaceable. |
| Diode: | A diode is incorporated into the positive leg to prevent charging or flow of current into the battery. |
| CDD: (Optional) | A device consisting of a manually activated switch and resistors designed to discharge the battery to 0 volts is built into the battery. |
| Specifications: | MIL-B-49430 (A) or (B) Saft Specifications |

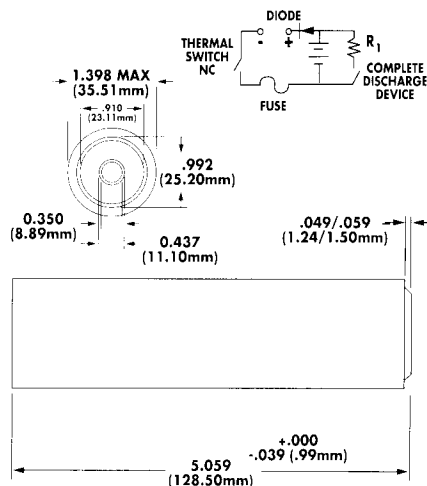
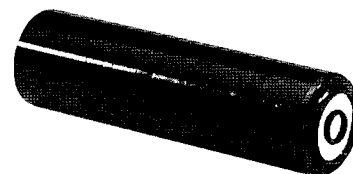


Figure 1. Overall Dimensions



BA-5800/U

Typical Applications

AN/PSN-11 GPS
 AN/PSN-10(V) GPS
 Chemical Agent Monitor

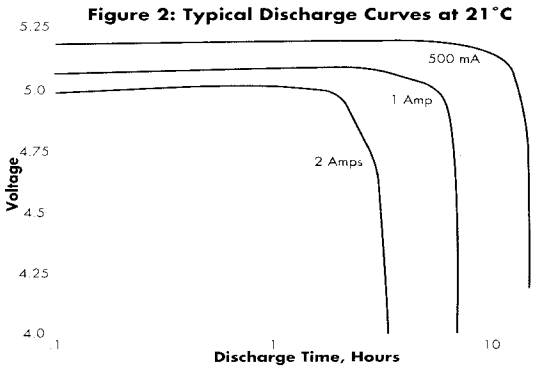


Figure 3: Typical 1 Amp Discharge Over Temperature Range

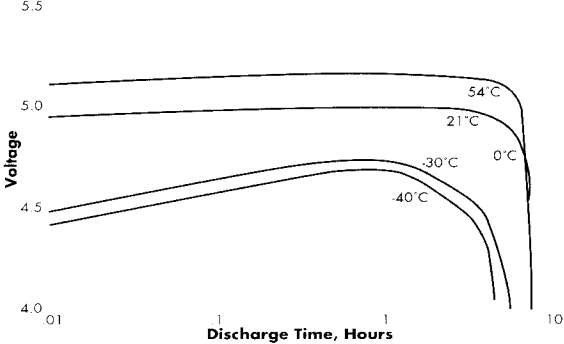


Figure 4: Typical Drain Rate vs Capacity

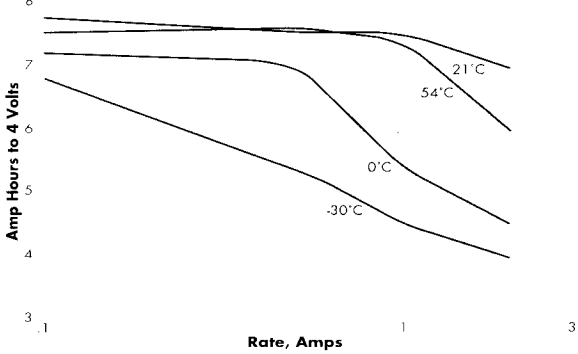
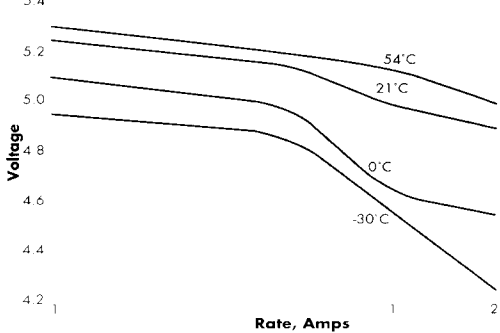


Figure 5: Typical Drain Rate vs Mid Life Voltage



SAFT America Inc.
 Lithium Battery Division
 313 Crescent Street • Valdese, NC 28690
 Tel (704) 874-4111 • Fax (704) 874-2431