



# ST-1455L

**REF** ST1455LNR29

This ST-1455L battery is rechargeable lithium-ion, engineered and designed for use in a world wide tactical environment, and is manufactured to meet and exceed Indian military standard JSS-55555 and ISO-9000 methods and procedures. This battery meets the requirements of JSS 6140-03 : 2013 and MIL-PRF-32052 with reference to MIL-STD-810E and MIL-STD-461.

## Key Features

- Standard power battery, 82Wh
- Wide operating temperature range
- Durable high impact Aluminum case
- High energy density cells
- Indigenous connector construction

## Typical Applications

- STAR V, 5W MK-II, RADIO SET
- Surveillance equipment
- Remote control electronics
- Portable Manpack Power bank
- Rugged portable electronics

## Rechargeable Li-ion Battery 14.4V 5.7Ah, 82.0Wh

### Compliance

- JSS-55555
- JSS-6140-03 : 2013
- MIL-STD-810E
- MIL-STD-32052

### Approvals

- ISO 9001:2015
- ISO 13485:2016
- Safety Datasheet
- UL-1642 (cells)

### Technical Specification:-

|                                |   |
|--------------------------------|---|
| Part Number                    | ST-1455L  |
| Pack Designation               | 4INR19/65-2   |
| Capacity (typ.)                | 5.7 AH  |
| Nom. Voltage                   | 14.4 Volt   |
| Max. Voltage                   | 16.8 Volt   |
| Max. Discharge Current (cont.) | 6.0 A   |
| Max. Discharge Current (pulse) | 10.0 A for 10 Sec.  |
| Cat P/No.                      | Z9/6140-005205  |
| Life Cycle                     | 1000 cycles at 25°C   |
| Communication                  | None  |
| Recommended charge             | Constant current at C/3, 1.9A with 16.8V limit, End with timer or when current drops below 0.1A |

### Physical Characteristics

|                        |                              |
|------------------------|------------------------------|
| Dimensions (L x W x H) | 261 x 89 x 73 mm             |
| Weight                 | 1.25 Kg ± 0.10 Kg            |
| Weight energy density  | 65 Wh/Kg                     |
| Connector              | 2-Way Female Floating Socket |
| Battery Housing        | High impact Aluminum casing  |
| Color                  | Olive drab / Black           |



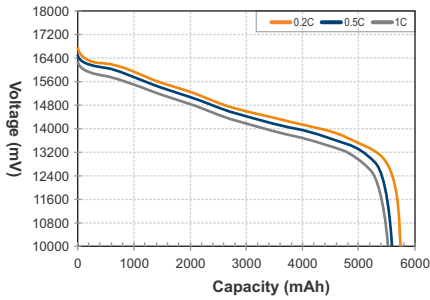
Li-ion



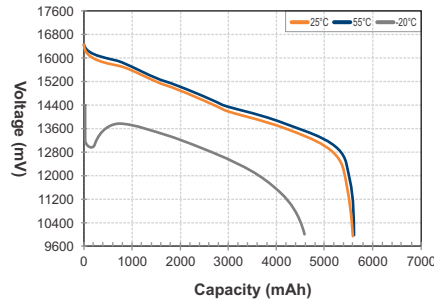


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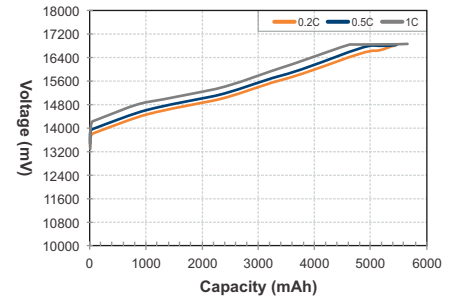
Rate discharge curve@ 25°C



Discharge curve at different temperatures



Rate charge curve@ 25°C



**Protection**

- Over current / short circuit
- Over charge / over discharge
- Over heating
- Charging at over temperature range
- Reverse polarity

**Smart Functions**

- Cell balancing

**Operating Temperature**

- Charge -20°C to +55°C
- Discharge -20°C to +55°C
- Storage -20°C to +55°C
- Humidity at 0 to 95%

**Storage**

- Allowable: -20 to +55°C
- Recommended: +20 to +40°C
- Humidity at 0 to 95%

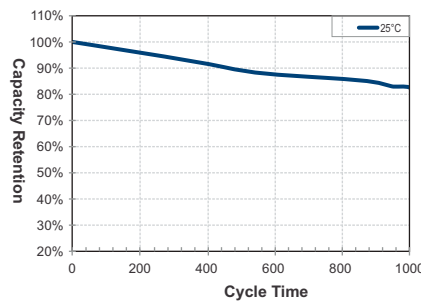
**Transportation**

- UN 38.3 Miscellaneous Class 9

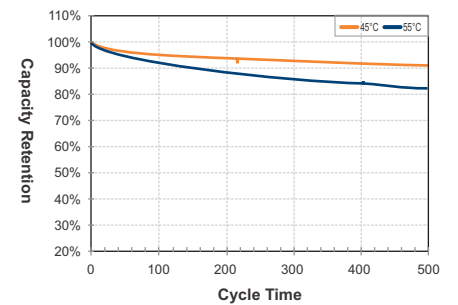
**Further Information**

Please refer to our website [www.sesbatteries.co](http://www.sesbatteries.co) for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.

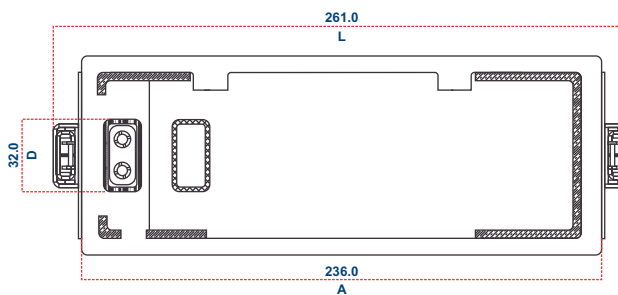
Cycle life curve@ 25°C



High temperature cycle life curves



**Product Dimension**



|                               |           |  |  |
|-------------------------------|-----------|--|--|
| Dimensions are in Millimeters |           |  |  |
| Tolerances: ±0.5mm            |           |  |  |
| L : 261.0                     | W : 89.0  |  |  |
| H : 73.0                      | A : 236.0 |  |  |
| B : 70.0                      | C : 61.0  |  |  |
| D : 32.0                      |           |  |  |

