



# SE-2590/U

**NSN 6140-72-049-0021**

This SE-2590/U 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.

## Benefits

- Wide operating temperature range
- Durable high impact ABS case, UL94V-0
- High energy density cells
- 5-segment LCD State-of-Charge display

## Key Features

- Flexible output voltage
- BB-2590/U and MIL-PRF-32052/1 constructions
- High power battery, 213Wh
- Robust molded plastic case

## Replacement to

- BB-2590/U, BB-390A/U, BB-390B/U, BB-490/U, BB-590/U, BA-3590/U, BA-5290/U, BA-5390/U, BA-5590/U

## Typical Applications

- AN/PRC-104, 117, 119, SINGARS & ATCS
- AN/PRC-117G, PRC-117F, PRC-138, FALCON
- AN/PSC-5D, KY-57
- ROBOTICS / ROV / UUV / AGV
- FSG-FIELD SIGNAL GENERATOR
- PLD-PORTABLE LASER DESIGNATOR
- MILAN / FGM-148 JAVELIN
- THERMALIMAGER

**Rechargeable Li-ion Battery  
14.8V 14.4Ah, 213Wh**

## 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:-

<b>National Stock Number</b>	<b>6140-72-049-0021</b>
Part Number	SE-2590/U
Pack Designation	4ICR19/65-6
Capacity (typ.)	29.6V Mode: 7.2 AH 14.8V Mode: 14.4 AH
Nom. Voltage	29.6 Volts Mode: 24.0 to 33.6V 14.8 Volts Mode: 12.0 to 16.8V
Max. Discharge Current (cont.)	29.6 Volts Mode: 10.0A 14.8 Volts Mode: 20.0A
Max. Discharge Current (pulse)	29.6 Volts Mode: 18.0A 14.8 Volts Mode: 36.0A
Visual state of charge indicator	5 Segment LCD
Life Cycle	1000 cycles at 25°C
Communication	None
Recommended charge	Constant current at C/4, 3.6A with 16.8V limit, End with timer or when current drops below 0.1A
<b>Physical Characteristics</b>	
Dimensions (L x W x H)	111.5 x 62.1 x 125.5 mm
Weight	1.40 Kg
Weight energy density	167 Wh/Kg
Connector	SC-C-179495
Battery Housing	ABS Plastic UL94V-0
Color	Olive drab / Black

Manufactured by : **SEALED ENERGY SYSTEMS**

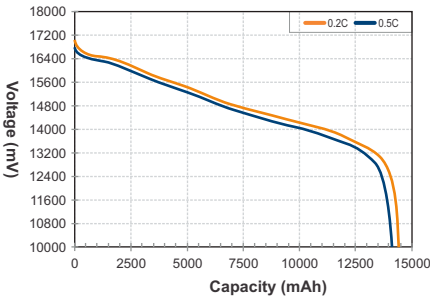
Plot No. 72, HSIIDC Industrial Estate, Ambala Cantt -133006, Haryana, India

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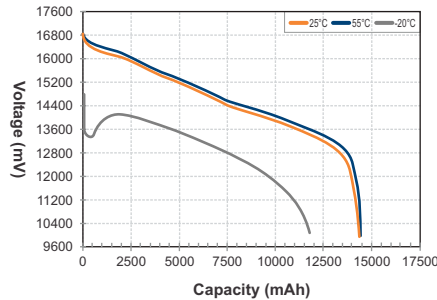


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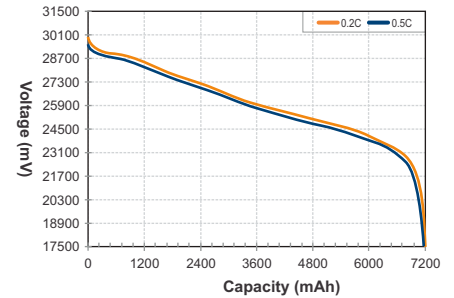
14.8V Mode discharge curve@ 25°C



14.8V Mode Discharge curve at different temperatures



29.6V Mode discharge 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
- 5-segment LCD fuel gauge display

**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%

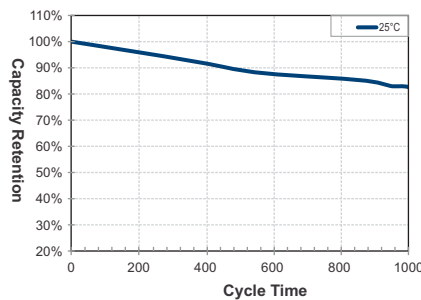
**Transportation**

- UN 38.3 Miscellaneous Class 9

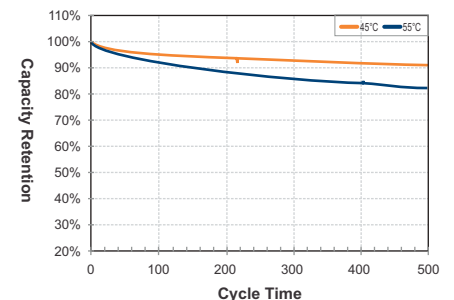
**Further Information**

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.

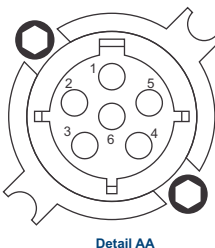
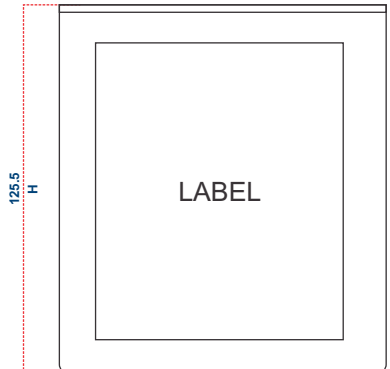
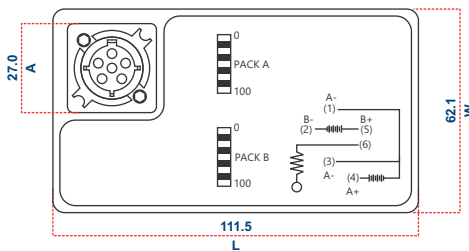
Cycle life curve@ 25°C



High temperature cycle life curves



**Product Dimension**



- PIN CONFIGURATION**
- Pack 1 (-VE)
  - Pack 2 (-VE)
  - Pack 1 (-VE)
  - Pack 1 (+VE)
  - Pack 2 (+VE)
  - ID/NTC

Dimensions are in Millimeters	
Tolerances: ±0.5mm	
L : 111.5	W : 62.1
H : 125.5	A : 27.0



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