



SE-0109/L

NSN 6140-72-048-9673

This SE-0109/N 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
- Built in protection circuitry

Key Features

- Standard power battery, 82Wh
- Robust molded plastic case

Typical Applications

- Soldier-based applications
- Portable electronic field equipment
- Hand-held military radios
- Communications equipment
- Night vision equipment
- Emergency response devices



Li-ion



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:-

National Stock Number	6140-72-048-9673
Part Number	SE-0109/L
Pack Designation	4INR19/65-2
Capacity (typ.)	5.7 AH
Nom. Voltage	14.4 Volt
Max. Voltage	16.8 Volt
Max. Discharge Current (cont.)	5.0 A
Max. Discharge Current (pulse)	8.0 A for 10 Sec.
Replacement to	BT-5790, BA-3791/U, BA-3791 MR-2790, MR-2791, ELI-0414
Compatible to Cat P/No.	Z7/ BEL-1800-100-140-77
Cat P/N:	Z9/MISC-7820-575-081-86
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)	186.5 x 36.5 x 65.2 mm
Weight	550 gm ± 50 gm
Weight energy density	121 Wh/Kg
Connector	Floating Pin 3.0 mm
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



+91 171 2699 054
+91 171 2698 389

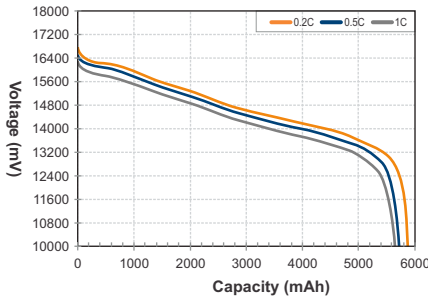


+91 171 2698 054
+91 171 2699 221

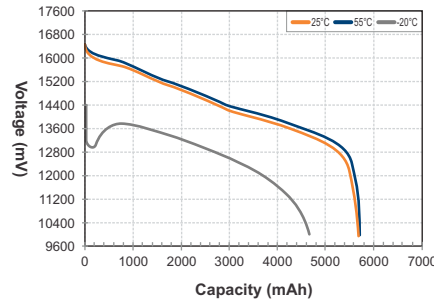


Rechargeable Li-ion Battery 14.4V 5.7Ah, 82.08Wh

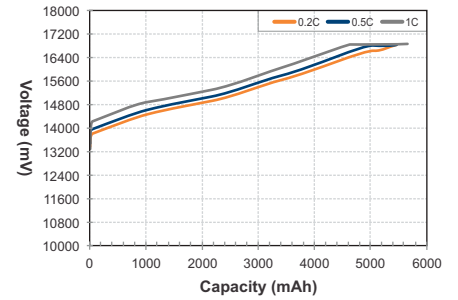
Rate discharge curve@ 25°C



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%

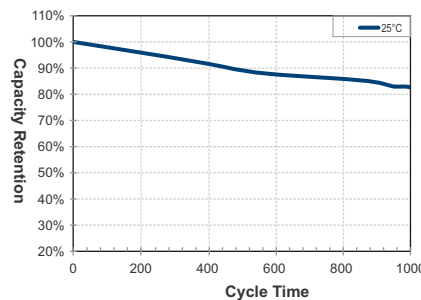
Transportation

- UN 38.3 Miscellaneous Class 9

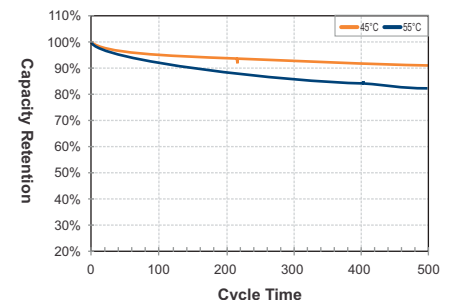
Further Information

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

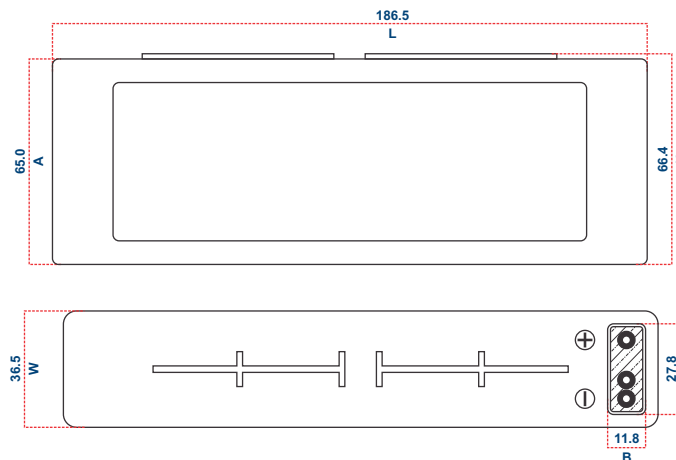
Cycle life curve@ 25°C



High temperature cycle life curves



Product Dimension



Dimensions are in Millimeters	
Tolerances: ±0.5mm	
L : 186.5	W : 36.5
H : 66.4	A : 65.0
B : 11.8	C : 27.8

