



SE-0109/N

NSN 6140-72-048-9670

This SE-0109/N battery is rechargeable nickel metal hydride, engineered and designed for use in a world wide tactical environment, and is manufactured to meet and exceed Indian military standard JSS-5555 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.

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, 42Wh
- Robust molded plastic case

Typical Applications

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



Rechargeable Nickel Metal Hydride (Ni-MH) Battery, 12V 3.5Ah, 42Wh

Compliance

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

Approvals

- ISO 9001:2015
- ISO 13485:2016
- Safety Datasheet
- IS 16046 : 2018 (cells)

Technical Specification:-

National Stock Number	6140-72-048-9670
Part Number	SE-0109/N
Capacity (typ.)	3.5 AH
Nom. Voltage	12 Volt
Max. Voltage	14.4 Volt
Max. Discharge Current (cont.)	1.8 A
Max. Discharge Current (pulse)	3.6 A for 10 sec.
Replacement to	BT-5790, BA-3791/U, BA-3791 MR-2790, MR-2791, ELI-0414
Compatible Cat P/No.	Z7/ BEL-1800-100-132-04 Z9/MISC-7820-575-081-86
Life Cycle	>500 cycles at 25°C
Communication	None
Recommended charge	Constant current at C/5, 0.7A with 14.8V limit, End with timer or when current drops below 70mA
Physical Characteristics	
Dimensions (L x W x H)	186.5 x 36.5 x 65.2 mm
Weight	0.75 Kg ± 0.05 Kg
Weight energy density	56 Wh/Kg
Connector	Floating Pin 3.0 mm
Battery Housing	ABS Plastic UL94V-0
Color	Olive drab / Black

Manufactured by : **SEALED ENERGY SYSTEMS**



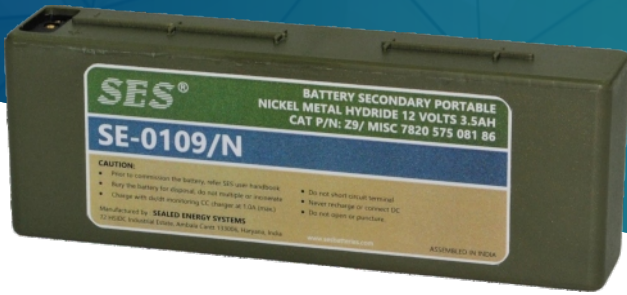
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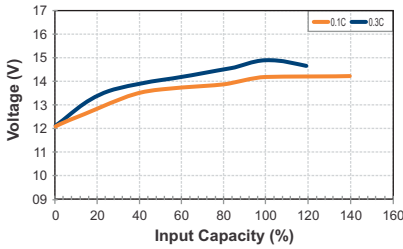


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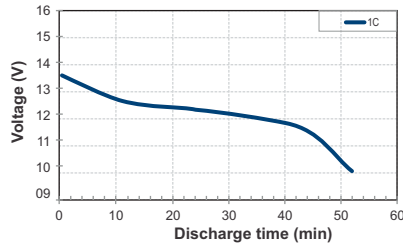


Rechargeable Ni-MH Battery 12V 3.5Ah, 46Wh

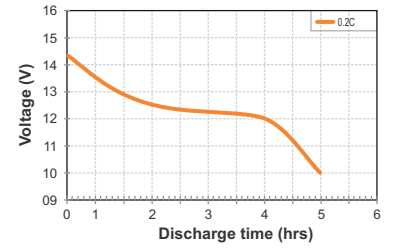
Charge curve at 25°C



Discharge at high rate 25°C



Discharge at low rate, 25°C



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

- Miscellaneous Class 9

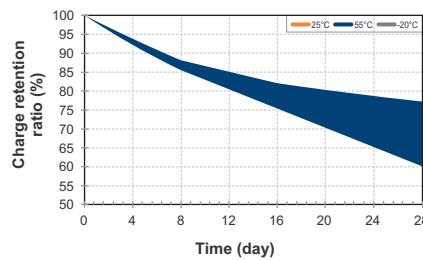
Charge Method

- Charging either through 'SES' tactical charger or through a dedicated charging board/ circuit installed in the host device
- Charging using dV/dt based smart charger with charging Voltage: 16.0V
- Typical charging current: C/3

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.

Self discharge at 25°C



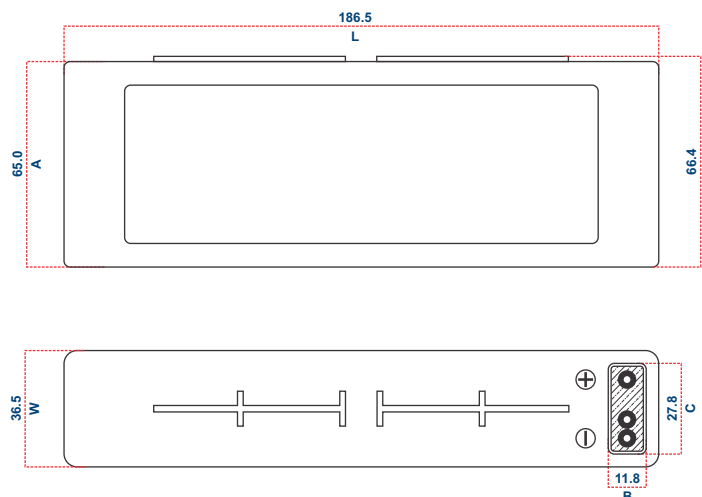
Chargers

SES® offers suitable chargers for batteries with a variety of capacities.

Refer to our website for more information on our switch mode type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

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

