

PRODUCT DATA SHEET

for

Low Self Discharge battery block "E-POWER" 9V Ni-MH Battery 2038-1

9,6V; 200 mAh

Cadmium-free Mercury-free Lead-free

Specifications and data Sheets are subject to be changed without prior notice due to product/technology development

Supplier: BE-POWER GmbH

Rabenauerstrasse 11

D-35457 Lollar

Germany

Tel.: +49-(0)6406-8348-0 Fax: +49-(0)6406-8348-29

www.be-power.de

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Battery and Energy Modules

1. GENERAL:

Electrochemical System: Nickel-Metal-Hydride

Nominal voltage: 9,6 V

Capacity: nominal: 200mAh (20°C; 0,2C discharge minimum: 200mAh current down to 8.0V) typical: 210mAh

Average weight ca.46 g

Heavy metal content: Mercury free, Cadmium free, Lead free

Dimension (maximum): Length* x Width x Height: 47,0mm x 27,0 m x 18,0mm

*Length is defined as shoulder length, without pole contacts.

Including pole contacts the maximum length is 48.5mm

Internal resistance: ≤ 1200mOhm

(1kHz, fully charged)

Discharge current: 20mA - 600mA

Recommended (continuous)

Discharge Cut-Off voltage: 8.0V

Charge conditions: Standard: 20mA (15h) (*dT/dt (1°C/min) Fast Charge*: 200mA (6h) -deltaU (≤40mV) Trickle charge: 6.0mA - 10mA

TCO: 45-50°C

Timer: 110% nominal input)

Operation temperature: Storage: -20°C - +35°C (30%-50% charged)

(r. h.: 65%±20%) Discharge: -20°C - +60°C

Standard Charge: 0°C - +45°C Fast Charge: +10°C - +45°C Trickle Charge: +10°C - +45°C

★ Self Discharge: ≤ 15% after 6 month (stored below 20°C) ≤ 20% after 12 month

Cycle life: ≥ 500 cycles (IEC Standard)

If battery shall be used at conditions other than specified and recommended herein, please contact BE-POWER GmbH for service.



Battery and Energy Modules

2. LOOK

Batteries should be without discoloration, leakage or deformation

3. CAUTION

- Do not waste the battery.
- Return the used battery to an official battery collection point to make sure that the battery will be recycled in accordance to national regulations.
- To charge the battery, use only the charger specified by the manufacturer.
- Do not dispose battery into fire or dismantle.
- Do not mix different batteries or cells and capacities in the same application.
- Charge and discharge the battery under specified conditions.
- Short circuit of the battery must be avoided.
- Do not solder onto the battery directly.
- Reversal of battery should be avoided.
- Battery use in extreme conditions like extreme temperature, deep discharge or overcharge may decrease battery performance; for instance cycle life.
- Battery shall be stored dry and cool.
- Avoid storage higher than 35°C and lower than –20°C or high humidity. This could create
 deterioration or damage of the cells such as:
 - -irreversible capacity loss.
 - -loss of electrolyte due to expansion or shrinkage of battery components.
 - rust on metal components.

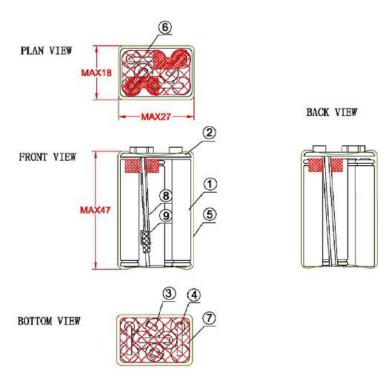
4. REMARK

Up to three full cycles (discharge/charge) may be needed after long term storage to recover the full electrical performance of the battery.



Battery and Energy Modules

5. DESIGN



6. LOOK

