

FEATURES

- **2100 mAh Capacity:** Provides extended usage time for devices, reducing the need for frequent recharging.
- **NiMH Chemistry:** Offers a more environmentally friendly option with reduced memory effect compared to NiCd batteries.
- **Wide Operating Temperature Range:** Functions effectively between -20 °C and 60 °C, suitable for diverse environments.
- **Wire Termination:** Ensures secure and reliable connections in various applications.
- **Compact Size:** With a diameter of 22.5 mm and height of 34 mm, it fits easily into compact spaces.

RS PRO 2100 mAh NiMH Rechargeable Battery

RS Stock No: 677-112



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This RS PRO rechargeable battery is designed for reliable power delivery in various industrial applications. With a nominal voltage of 1.2 V and a capacity of 2100 mAh, it is ideal for devices requiring consistent energy output. Its NiMH chemistry ensures a longer lifespan and environmental friendliness compared to traditional batteries.

General Specifications

Chemistry	NiMH
Product Type	Rechargeable Battery
Termination Type	Wire

Electrical Specifications

Battery Capacity	2100 mAh
Nominal Voltage	1.2 V

Mechanical Specifications

Diameter	22.5 mm
Height	34 mm
Weight	42 g

Operation Environment Specifications

Maximum Operating Temperature	60 °C
Minimum Operating Temperature	-20 °C

Approvals

Standards/Approvals	ANSI-ESD S20.20:2021, ATEX-IECEX, RoHS, VDE
---------------------	---

Safety Requirement for User

1. Avoid short-circuiting of the battery. Do not connect the positive and negative terminals with a wire or other metal items, as it may cause a large flow of current through the battery and damage it.
2. Do not attempt to take the battery apart or subject it to pressure or impact. The battery parts may get damaged if ruptured, which may generate heat or cause fire. The alkaline electrolyte may also harm the skin or eyes or damage clothing upon contact.
3. Do not heat or incinerate the battery. The battery may swell, rupture, explode, or release alkaline electrolyte.
4. Do not solder directly to the battery, as it may damage the battery.
5. If any abnormality is found while using the battery, stop using it immediately and inform the RS team. Do not attempt to repair or disassemble the battery.
6. Charge the battery only with a qualified charger that meets the specified conditions. Improper charging control may cause overcharging and damage the battery. Overcharging can lead to reduced capacity, shorter life, leakage, overheating, bursting, or fire.
7. A discharge cutoff of 1.0V per cell is required. However, a cutoff voltage of 1.05V per cell is recommended for multi-cell battery packs.
8. Do not operate the cells or battery packs in a sealed case. A pressure vent is required.

Note IEC61951-2 ED3 Endurance in cycles :

The battery is capable of 500 cycles under the following conditions:

Cycle number	Charge	Rest	Discharge
1	0.10CmA for 16 hrs	none	0.25CmA for 2 hrs 20 mins
2-48	0.25CmA for 3 hrs 10 mins	none	0.25CmA for 2 hrs 20 mins
49	0.25CmA for 3 hrs 10 mins	none	0.25CmA to 1.0V/cell
50	0.10CmA for 16 hrs	1-4hr(s)	0.20CmA to 1.0V/cell

- Cycle 1 to 50 shall be repeated until the discharge duration on any 50th cycle becomes less than 3 hrs.

The actual cycle life depends on the operating temperature and cycling conditions.

Typical characteristics





