

4Ah Nickel-Metal Hydride Batteries

Batteries for Emergency Lighting

Mackwell 4Ah Nickel-Metal Hydride (NiMH) batteries comply with IEC 61951-2 and offer equivalent charge capacity to 4Ah D-type Nickel-Cadmium batteries but in a smaller package, enabling them to be used in smaller spaces.

They are available in both side-by-side (SBS) and stick formats and are designed for 4-years life as required by IEC 60598-2-22 and ICEL 1001, when operated within their temperature ranges.

KEY FEATURES:

- High temperature cells
- Low profile
- 4Ah for 3-hour emergency duration
- 4-year design life to meet IEC 60598-2-22
- Stick configurations supplied with end cap fixings
- Supplied with red and black flying leads for simple push-in connection to Mackwell emergency modules



RECYCLING OF WASTE BATTERIES

Under the Waste Batteries and Accumulators Regulations 2009, Mackwell Electronics Ltd have contracts in place with several companies to carry out the proper recycling of industrial batteries returned.

If any customer of Mackwell requires us to take back Industrial batteries of our supply, they should contact the Sales Office at Mackwell to obtain the necessary authority. When this has been granted, the customer should make the necessary arrangements for the return of the Industrial batteries to the Mackwell site in Aldridge.

From that point, Mackwell will take full responsibility for the correct disposal of the batteries, through their established sub-contractors.

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4Ah NiMH Side by Side (SBS) packs for 3-hour duration:

Catalogue Number	B914	B916
No. of cells	4	6
Nominal volts	4.8	7.2
Capacity	4Ah	4Ah
Cell temperature range	0°C to +50°C	0°C to +50°C
Length x Width	80 x 71	120 x 71
Height	19	19
Fixing centres	None	None
Cable length	240	240

4Ah NiMH Sticks with end caps for 3-hour duration:

Catalogue Number	B902	B903	B904*	B905*	B906*
No. of cells	2	3	2 + 2	2 + 3	3 + 3
Nominal volts	2.4	3.6	4.8	6.0	7.2
Capacity	4Ah	4Ah	4Ah	4Ah	4Ah
Cell temperature range	0°C to +50°C				
Length (with end caps)	176	246	176 + 176	176 + 246	246 + 246
Fixing centres	166	236	166 + 166	166 + 236	236 + 236
Width (with end caps)	27	27	27	27	27
Height (with end caps)	21	21	21	21	21
Cable length	400	400	400	600	600

*Supplied in two parts with a link, to be mounted end-to-end or side-by-side.

CAUTION:

If the temperature ranges above are exceeded, performance and operational life of the cells will be reduced.

STORAGE

It is important not to store NiMH batteries in the discharged state for long periods. They should be stored with at least 30% charge in the open-circuit condition for no longer than 6 months in the following environmental conditions:

- Ambient temperature: -20°C to +30°C
- Humidity: 65% ±20%

If the battery is stored for longer than 6 months, it may be necessary to charge and discharge the battery a few times, in order to obtain reasonably good capacity recovery and to help prevent battery performance degradation.

Note:

- Mackwell batteries have been specifically selected to work with Mackwell emergency products. If a battery pack is used that has not been supplied by Mackwell, always ensure that it is correctly rated for the application
- Mackwell offers end caps with all battery sticks and these should be securely fastened to the gear tray or luminaire body with screws. Failure to use appropriate end caps may result in damage to the luminaire or wiring during transport, installation and operation
- All dimensions are in millimeters
- It is important not to cycle the batteries too many times during use and to avoid excessive switching of the mains supply, particularly during the installation process, which can lead to a reduction in the life of the battery. For this reason, Mackwell recommend disconnecting the battery until the installation is ready for commissioning

Mackwell maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice.

The contents are intended for guidance only.

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