

# BATTERIES - NiMH

## Emergency Lighting Batteries



## BATTERIES NiMH



### Nickel-Metal Hydride Batteries

#### 4Ah Nickel-Metal Hydride Batteries

Mackwell 4Ah Nickel-Metal Hydride (NiMH) batteries comply with EN61951-2 and due to their low-profile design, compared with equivalent NiCd batteries, are suitable for use in smaller spaces

They are available in various configurations and are designed for 4-years life as required by EN 60598-2-22, when operated within their temperature ranges.

#### Key features:

- High temperature T-Type cells
- Low-profile
- 4 year design life to meet EN 60598-2-22
- Stick configurations supplied with end cap fixings
- Suitable for use with SmartCharge capable Mackwell control gear for reduced operating temperatures
- Supplied with red and black flying leads for simple push-in connection to Mackwell emergency modules



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### Specifications

#### Side by Side (SBS) packs

##### 9001675 (B914)

Number of cells	:	4
Nominal volts	:	4.8
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	80 mm
Width	:	71 mm
Height	:	19 mm
Fixing centres	:	N/A
Cable length	:	240 mm

##### 9001676 (B916)

Number of cells	:	6
Nominal volts	:	7.2
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	120 mm
Width	:	71 mm
Height	:	19 mm
Fixing centres	:	N/A
Cable length	:	240mm

##### 9001751 (B923)

Number of cells	:	3
Nominal volts	:	3.6
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	60 mm
Width	:	71 mm
Height	:	19 mm
Fixing centres	:	N/A
Cable length	:	300mm

#### Sticks with end caps

##### 9001663 (B902)

Number of cells	:	2
Nominal volts	:	2.4
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	176 mm
Width	:	27 mm
Height	:	21 mm
Fixing centres	:	166 mm
Cable length	:	400 mm

##### 9001664 (B903)

Number of cells	:	3
Nominal volts	:	3.6
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	246 mm
Width	:	27 mm
Height	:	21 mm
Fixing centres	:	236 mm
Cable length	:	400 mm

##### 9001666 (B904)

Number of cells	:	2+2
Nominal volts	:	4.8
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	176 + 176 mm
Width	:	27 mm
Height	:	21 mm
Fixing centres	:	166 + 166 mm
Cable length	:	400 mm

##### 9001670 (B905)

Number of cells	:	2+3
Nominal volts	:	6.0
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	176 + 246 mm
Width	:	27 mm
Height	:	21 mm
Fixing centres	:	166 + 236 mm
Cable length	:	600 mm

#### Sticks with end caps

##### 9001671 (B906)

Number of cells	:	3+3
Nominal volts	:	7.2
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	246 + 246 mm
Width	:	27 mm
Height	:	21 mm
Fixing centres	:	236 + 236 mm
Cable length	:	600 mm

#### Pyramid configuration

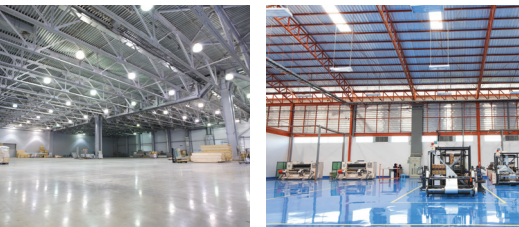
##### 9001691 (B963)

Number of cells	:	3
Nominal volts	:	3.6
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	72 mm
Width	:	37 mm
Height	:	35 mm
Fixing centres	:	N/A
Cable length	:	300 mm

##### 9001702\* (B1301)

Number of cells	:	3
Nominal volts	:	3.6
Capacity	:	4 Ah
Cell temperature range	:	0 to +40°C
Length	:	146 mm
Width	:	46 mm
Height	:	32 mm
Fixing centres	:	140 mm
Cable length	:	TBC

\* Mounted on a metal plate



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### 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: 60% to 85%

### 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.
- 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

### Caution

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

### Order codes

#### Side by Side

Order Code	Description
9001675	4C 4Ah SBS NiMH Battery
9001676	6C 4Ah SBS NiMH Battery
9001751	3C 4Ah SBS NiMH Battery

#### Sticks

Order Code	Description
9001663	2C 4Ah Stick NiMH Battery
9001664	3C 4Ah Stick NiMH Battery
9001666*	2+2C 4Ah Stick NiMH Battery
9001670*	2+3C 4Ah Stick NiMH Battery
9001671*	3+3C 4Ah Stick NiMH Battery

#### Pyramid

Order Code	Description
9001691	3C 4Ah Pyramid NiMH Battery
9001702**	3C 4Ah Pyramid NiMH Battery

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

\*\* Mounted on a metal plate

### Battery Recycling

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.



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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