TRIDONIC

NiCd Accus 4.0 Ah

Nickel-Cadmium cells (NiCd)



Fig. 1: stick



Fig. 2: stick + stick

Product description
_ High-temperature NiCd cells for use with emergency lighting unit
_ 4-year design life
_ 1-year guarantee

Properties
_ Constant high-temperature operation – depending on the emergency lighting unit used (refer to respective emergency control gear data sheet)
_ Good charging properties at high temperature
_ High energy maintenance of the charged battery
_ Certified quality manufacturer
_ In various configurations
_ Simple connection with blade terminal
_ With polycarbonate fixing caps and connecting cable
_ Electrical connection with mounted end caps possible
_ Suitable for emergency lighting equipment as per IEC 60598-2-22

Website
http://www.tridonic.com/89800084

NiCd Accus 4.0 Ah

Nickel-Cadmium cells (NiCd)



Fig. 1: stick

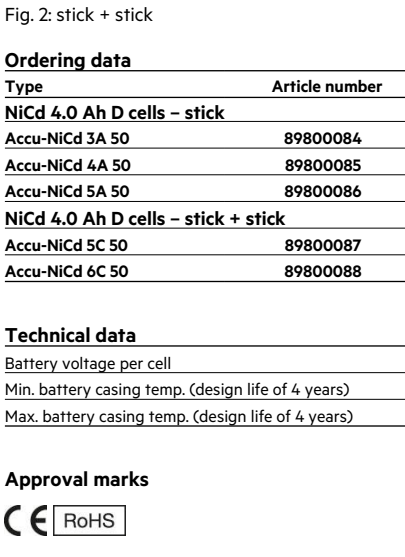


Fig. 2: stick + stick

Ordering data

Type	Article number	Number of cells	Capacity	Packaging, carton	Packaging, outer box	Weight per pc.
NiCd 4.0 Ah D cells – stick						
Accu-NiCd 3A 50	**89800084**	1 x 3	4 Ah	5 pc(s).	25 pc(s).	0.357 kg
Accu-NiCd 4A 50	**89800085**	1 x 4	4 Ah	5 pc(s).	25 pc(s).	0.472 kg
Accu-NiCd 5A 50	**89800086**	1 x 5	4 Ah	5 pc(s).	25 pc(s).	0.587 kg
NiCd 4.0 Ah D cells – stick + stick						
Accu-NiCd 5C 50	**89800087**	2 + 3	4 Ah	5 pc(s).	25 pc(s).	0.600 kg
Accu-NiCd 6C 50	**89800088**	3 + 3	4 Ah	5 pc(s).	25 pc(s).	0.714 kg

Technical data

Battery voltage per cell	1.2 V
Min. battery casing temp. (design life of 4 years)	+ 5 °C
Max. battery casing temp. (design life of 4 years)	Refer to emergency control gear datasheet

Approval marks

CE RoHS

Specific technical data

Type	Article number	Figure	Number of cells	Capacity	Length L	Hole spacing D	Width B	Height H
NiCd 4.0 Ah D cells – stick								
Accu-NiCd 3A 50	**89800084**	1	3	4 Ah	210 mm	198 mm	36 mm	35 mm
Accu-NiCd 4A 50	**89800085**	1	4	4 Ah	269 mm	257 mm	36 mm	35 mm
Accu-NiCd 5A 50	**89800086**	1	5	4 Ah	328 mm	316 mm	36 mm	35 mm
NiCd 4.0 Ah D cells – stick + stick								
Accu-NiCd 5C 50	**89800087**	2	5	4 Ah	152 + 210 mm	140 + 198 mm	36 mm	35 mm
Accu-NiCd 6C 50	**89800088**	2	6	4 Ah	210 mm	198 mm	36 mm	35 mm

Standards
The battery cells are designed to comply with the IEC international standard and tested according to the normative permanent charge endurance test described in the IEC 61951-2 standard. This performance is mandatory for use in Emergency Lighting Units to comply with the IEC 60598 2.22.

Technical data Accu

Typical capacity	4 Ah
Typical weight per cell	119 g
Cell dimensions:	
• Diameter	32.5 mm
• Height	60.5 mm

Consult individual emergency module data sheet for maximum allowable temperatures.

Technical data End caps
Glow-wire test according to EN 61347-1 with increased temperature of 960 °C passed.

Storage
- Store batteries within the specified temperature range in low humidity conditions. Optimal storage conditions are:
  – temperature: +5 ... +25 °C
  – humidity: 65 % ±5 %
- Avoid atmosphere with corrosive gas
- Disconnect batteries before store or delivery
- Avoid storage of discharged batteries
- A long term storage in open circuit leads to battery self discharge and deactivation of chemical components. It could be required to charge and discharge the batteries a few times to recover the initial performance.

Safety
- Do not short-circuit the battery pack – when installing the luminaire make sure sharp edges do not come into contact with cables.
- Do not open or damage the battery pack or throw it into a fire.
- Protect the battery against moisture and keep away from water.
- Do not expose the battery to direct sunlight or excessive heat (see storage conditions).
- Transport and store the battery only in its original packaging.
- Comply with the transport conditions of the transport company.
- Follow the instructions on the safety data sheets.



Damage/improper use
If the battery is damaged or user incorrectly vapours and liquids may escape from it. If you come into contact with battery fluid wash immediate with water and seek medical assistance if necessary.

Disposal
- Do not dispose of batteries with normal waste.
- Comply with local regulations when disposing of batteries.

Mechanical details

Battery leads
- Quantity: 1 red and 1 black
- Length: 1,300 mm
- Wire type: 0.5 mm^2 solid conductor
- Insulation temperature rating: 90 °C

Battery end termination
Push on 4.8 mm receptacle to suit battery soade fitted with insulating cover

Module end termination
8.0 mm stripped insulation

Two-piece batteries are supplied with a 200 mm lead with 4.8 mm receptacles at each end and insulating covers to connect the separate sticks together. Connect two battery sticks in series by connecting plus to minus.

Batteries
Connection method: 4.8 x 0.5 mm spade tag welded to end of cell.

For stick packs this connection is accessible after the battery caps have been fitted.

To inhibit inverter operation disconnect the batteries by removing the connector from the battery spade tag.

Additional information

Additional technical information at
www.tridonic.com → Technical Data

Guarantee conditions at
www.tridonic.com → Services

No warranty if battery was opened.