

## High-temperature fibre structure technology (FNC)

### rail | power FNC-HT

When used in certain regions of the world („hot countries“), NiCd batteries are required to operate at permanently high ambient temperatures. Under these conditions conventional batteries suffer from accelerated ageing, poor charge acceptance and premature degradation of capacity. Due to this, batteries for high temperature application had to be significantly oversized, until now. By using FNC-HT batteries, this oversizing can be kept to a minimum, with direct advantages in terms of weight, installation space and costs. At the same time, the maintenance effort can be reduced compared to conventional batteries and the service life is extended.

**Optimum performance  
while others break into a sweat.**



### FNC-HT Technologie – a hot solution for:

- ▶ Permanently warm applications
- ▶ Large temperature loads
- ▶ Continuous tunnel operation

### Your benefits rail | power FNC-HT

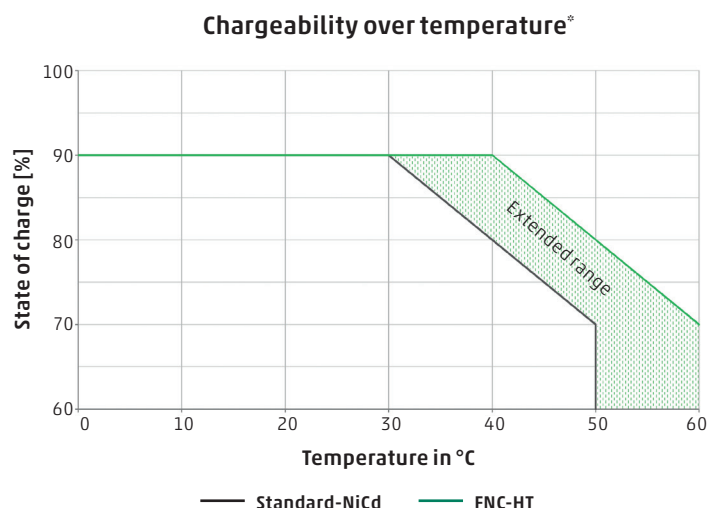
- ▶ Extended temperature range
- ▶ Less oversizing
- ▶ Longer service life
- ▶ Reduced maintenance effort



# High-temperature fibre structure technology (FNC)

## rail | power FNC-HT

With the FNC-HT series the proven FNC technology has been specially adapted for use under permanently hot climatic conditions. Proven design features have been retained and experiences gained from many successful warm applications could be incorporated. The already good temperature resistance of the HOPPECKE FNC batteries has been further improved by the use of a special electrolyte, which shifts the range of operation to significantly higher temperatures.



\*Example: Exact sizing factors have to be selected acc. the project-specific conditions in consultation with HOPPECKE.

## Technical data

### rail | power FNC-HT M

|                | C <sub>s</sub><br>[Ah] | Länge*<br>[mm] | Breite<br>[mm] | Höhe<br>[mm] | Gewicht<br>[kg] |
|----------------|------------------------|----------------|----------------|--------------|-----------------|
| FNC-HT 40 MR2  | 40                     | 122            | 39             | 309          | 2,20            |
| FNC-HT 60 MR2  | 60                     | 122            | 47             | 309          | 2,80            |
| FNC-HT 85 MR2  | 85                     | 122            | 58             | 309          | 3,35            |
| FNC-HT 105 MR2 | 105                    | 122            | 72             | 309          | 4,20            |
| FNC-HT 125 MR2 | 125                    | 122            | 92             | 309          | 5,40            |
| FNC-HT 145 MR2 | 145                    | 122            | 92             | 309          | 5,65            |
| FNC-HT 165 MR2 | 165                    | 122            | 115            | 309          | 6,75            |
| FNC-HT 190 MR2 | 190                    | 122            | 115            | 309          | 7,00            |
| FNC-HT 210 MR3 | 210                    | 194            | 92             | 309          | 8,85            |
| FNC-HT 225 MR3 | 225                    | 194            | 92             | 309          | 8,85            |
| FNC-HT 245 MR3 | 245                    | 194            | 92             | 309          | 9,00            |
| FNC-HT 250 MR3 | 250                    | 194            | 115            | 309          | 10,50           |
| FNC-HT 280 MR3 | 280                    | 194            | 115            | 309          | 10,70           |
| FNC-HT 285 MR3 | 285                    | 194            | 115            | 309          | 11,20           |
| FNC-HT 320 MR3 | 320                    | 194            | 115            | 309          | 11,45           |

\* Dimensions apply to PP casing material. Other materials may deviate.

### rail | power FNC-HT H

|                | C <sub>s</sub><br>[Ah] | Länge*<br>[mm] | Breite<br>[mm] | Höhe<br>[mm] | Gewicht<br>[kg] |
|----------------|------------------------|----------------|----------------|--------------|-----------------|
| FNC-HT 38 HR2  | 38                     | 122            | 39             | 309          | 2,30            |
| FNC-HT 50 HR2  | 50                     | 122            | 47             | 309          | 2,80            |
| FNC-HT 65 HR2  | 65                     | 122            | 58             | 309          | 3,40            |
| FNC-HT 75 HR2  | 75                     | 122            | 72             | 309          | 4,15            |
| FNC-HT 90 HR2  | 90                     | 122            | 72             | 309          | 4,30            |
| FNC-HT 105 HR2 | 105                    | 122            | 92             | 309          | 5,40            |
| FNC-HT 115 HR2 | 115                    | 122            | 92             | 309          | 5,60            |
| FNC-HT 125 HR2 | 125                    | 122            | 115            | 309          | 6,65            |
| FNC-HT 140 HR2 | 140                    | 122            | 115            | 309          | 6,95            |
| FNC-HT 150 HR2 | 150                    | 122            | 115            | 309          | 7,10            |
| FNC-HT 155 HR3 | 155                    | 194            | 92             | 309          | 8,45            |
| FNC-HT 160 HR3 | 160                    | 194            | 92             | 309          | 8,75            |
| FNC-HT 175 HR3 | 175                    | 194            | 92             | 309          | 8,75            |
| FNC-HT 180 HR3 | 180                    | 194            | 92             | 309          | 9,00            |
| FNC-HT 195 HR3 | 195                    | 194            | 92             | 309          | 9,05            |
| FNC-HT 200 HR3 | 200                    | 194            | 115            | 309          | 10,85           |
| FNC-HT 220 HR3 | 220                    | 194            | 115            | 309          | 10,90           |
| FNC-HT 240 HR3 | 240                    | 194            | 115            | 309          | 11,15           |
| FNC-HT 265 HR3 | 265                    | 194            | 115            | 309          | 11,50           |