



Industrial Batteries – Network Power  
New Marathon XL  
More energy for safer storage.

Specifications

# The safe storage system with long design life.

## Specifications

- The improved Marathon XL batteries supply more energy for safer storage.
- Excellent high current performance combined with high service life
- Increased capacity (plus 20% compared to Marathon L)
- Maintenance-free (no topping up) during the whole service life
- Nominal capacity 50.4 – 179 Ah
- 12 design life at 20°C ambient temperature (80% remaining capacity C<sub>10</sub>)
- EUROBAT Classification: Long Life
- Designed in accordance with IEC 60896-21/-22
- Grid plate construction consisting of a lead calcium alloy
- Very low gassing due to internal gas recombination (99% efficient)
- Low self discharge rate
- Short recharging time
- Trouble-free transportation of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR clause 67)
- Completely recyclable



## Applications

The Marathon XL batteries are safe storage systems for electrical energy with long design life. As a long-term storage the batteries are versatile for applications such as telecommunications, emergency lighting, railways, utilities and other safety power supplies.



Design life in years:  
12



Nominal capacity  
50.4 – 179 Ah



Block battery



Grid plate



Recyclable



Valve regulated  
lead-acid  
batteries



Maintenance-  
free (no topping-  
up)



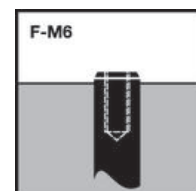
Special high  
current  
performance

| Type    | Part number     | Nom.<br>voltage<br><br>V | Capacity<br><br>C <sub>20</sub><br>1.80 Vpc<br>20 °C<br>Ah | Nominal<br>capacity<br><br>C <sub>10</sub><br>1.80 Vpc<br>20 °C<br>Ah | Capacity<br><br>C <sub>1</sub><br>1.60 Vpc<br>20 °C<br>Ah | Length<br>(l)<br><br>max.<br>mm | Width<br>(b/w)<br><br>max.<br>mm | Height<br>(h1)<br><br>max.<br>mm | Height<br>incl.<br>con-<br>nectors<br>(h2)<br><br>max.<br>mm | Weight<br><br>approx.<br>kg | Internal<br>resist-<br>ance<br><br>mOhm | Short<br>circuit<br>current<br><br>A | Terminal |
|---------|-----------------|--------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------|----------------------------------|----------------------------------|--------------------------------------------------------------|-----------------------------|-----------------------------------------|--------------------------------------|----------|
| XL6V180 | NAXL060180HMOFA | 6                        | 187                                                        | 179                                                                   | 120                                                       | 309                             | 172                              | 223                              | 241                                                          | 30.0                        | 1.60                                    | 3988                                 | F-M6     |
| XL12V50 | NAXL120050HMOFA | 12                       | 55.4                                                       | 50.4                                                                  | 32.7                                                      | 220                             | 172                              | 219                              | 235                                                          | 19.5                        | 9.10                                    | 1376                                 | F-M6     |
| XL12V70 | NAXL120070HMOFA | 12                       | 71.8                                                       | 66.6                                                                  | 45.6                                                      | 262                             | 172                              | 223                              | 239                                                          | 24.6                        | 9.00                                    | 1401                                 | F-M6     |
| XL12V85 | NAXL120085HMOFA | 12                       | 90.8                                                       | 85.7                                                                  | 57.5                                                      | 309                             | 172                              | 223                              | 239                                                          | 29.3                        | 5.70                                    | 2191                                 | F-M6     |

Figures are also valid for UL 94-V0 version.  
Change "H" to "V" in the part number.

E.g.:  
Standard NAXL120085 **H** M0MA  
UL 94-V0 NAXL120085 **V** M0MA

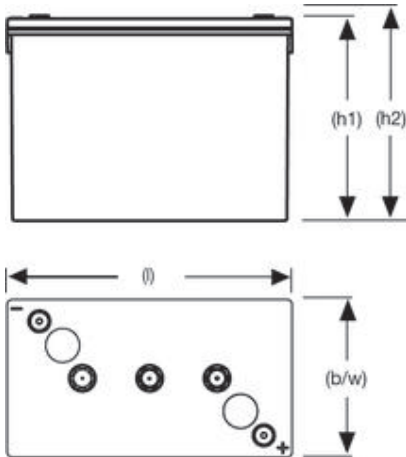
### Container, terminal and torque



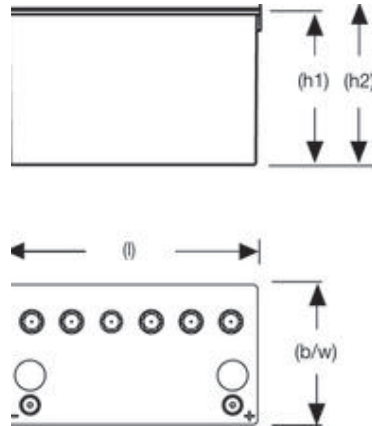
11 Nm

**Container:** UL 94-HB = Polypropylene (PP)  
UL 94-V0 = Polypropylene (PP)

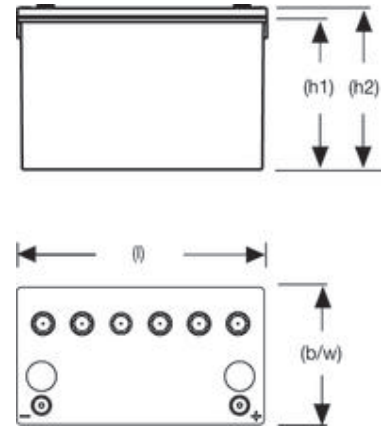
XL6V180



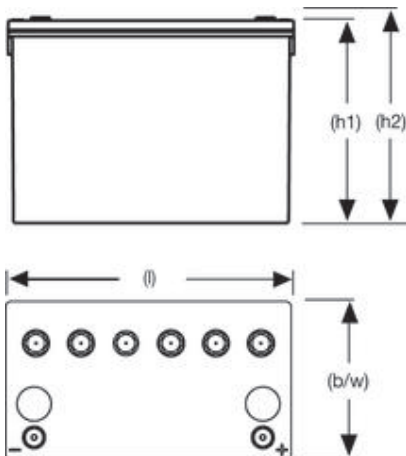
XL12V50



XL12V70



XL12V85



**1.95 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 212   | 191    | 173    | 155    | 124    | 96.9   | 81.0 | 48.0 | 33.8 | 23.1 | 15.5 | 13.7 | 7.18 |
| XL12V50 | NAXL120050HMOFA | 63.6  | 53.7   | 46.9   | 42.5   | 35.0   | 27.4   | 22.1 | 12.6 | 8.90 | 6.24 | 4.36 | 3.86 | 2.10 |
| XL12V70 | NAXL120070HMOFA | 101   | 84.1   | 69.2   | 61.8   | 47.7   | 35.8   | 27.6 | 16.8 | 12.2 | 8.39 | 5.79 | 4.99 | 2.63 |
| XL12V85 | NAXL120085HMOFA | 114   | 94.5   | 82.0   | 76.3   | 62.1   | 47.5   | 38.1 | 23.1 | 17.1 | 11.3 | 7.55 | 6.45 | 3.43 |

**1.90 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 314   | 256    | 222    | 192    | 148    | 114    | 94.5 | 55.0 | 39.5 | 27.0 | 18.3 | 16.2 | 8.54 |
| XL12V50 | NAXL120050HMOFA | 95.5  | 71.3   | 59.1   | 52.4   | 41.0   | 31.9   | 26.4 | 15.4 | 10.7 | 7.78 | 5.39 | 4.61 | 2.55 |
| XL12V70 | NAXL120070HMOFA | 145   | 109    | 86.3   | 75.2   | 56.6   | 42.6   | 33.1 | 20.9 | 15.5 | 10.3 | 6.97 | 5.82 | 3.11 |
| XL12V85 | NAXL120085HMOFA | 161   | 122    | 102    | 92.0   | 72.6   | 54.5   | 44.4 | 27.3 | 20.1 | 13.5 | 9.13 | 7.76 | 4.14 |

**1.85 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 409   | 315    | 265    | 224    | 168    | 125    | 103  | 60.3 | 43.3 | 30.7 | 20.4 | 17.0 | 8.95 |
| XL12V50 | NAXL120050HMOFA | 124   | 87.1   | 68.5   | 59.4   | 46.0   | 35.5   | 28.7 | 17.0 | 12.2 | 8.49 | 5.71 | 4.83 | 2.66 |
| XL12V70 | NAXL120070HMOFA | 179   | 129    | 101    | 87.6   | 63.2   | 47.1   | 37.5 | 23.0 | 16.8 | 11.2 | 7.56 | 6.30 | 3.35 |
| XL12V85 | NAXL120085HMOFA | 201   | 147    | 121    | 105    | 81.4   | 60.4   | 49.7 | 29.9 | 22.2 | 14.9 | 9.86 | 8.16 | 4.34 |

**1.80 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 482   | 355    | 289    | 242    | 181    | 135    | 110  | 63.8 | 46.7 | 32.2 | 21.4 | 17.9 | 9.37 |
| XL12V50 | NAXL120050HMOFA | 145   | 99.2   | 77.9   | 67.3   | 51.0   | 38.6   | 30.7 | 18.5 | 13.6 | 8.90 | 5.91 | 5.04 | 2.77 |
| XL12V70 | NAXL120070HMOFA | 203   | 142    | 110    | 94.3   | 68.2   | 51.1   | 40.6 | 24.6 | 17.8 | 12.0 | 8.04 | 6.66 | 3.59 |
| XL12V85 | NAXL120085HMOFA | 234   | 168    | 134    | 116    | 88.0   | 64.7   | 52.6 | 31.0 | 23.1 | 15.7 | 10.3 | 8.57 | 4.54 |

**1.75 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 540   | 385    | 309    | 256    | 189    | 141    | 114  | 66.0 | 48.1 | 33.1 | 22.0 | 18.3 | 9.68 |
| XL12V50 | NAXL120050HMOFA | 162   | 107    | 82.6   | 70.2   | 53.0   | 39.6   | 31.2 | 19.0 | 13.9 | 9.11 | 6.02 | 5.15 | 2.88 |
| XL12V70 | NAXL120070HMOFA | 222   | 154    | 116    | 100    | 71.5   | 53.4   | 42.8 | 25.3 | 18.4 | 12.3 | 8.27 | 6.89 | 3.70 |
| XL12V85 | NAXL120085HMOFA | 258   | 178    | 142    | 121    | 90.2   | 66.9   | 53.9 | 32.1 | 23.9 | 16.1 | 10.7 | 8.77 | 4.64 |

**1.70 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 592   | 414    | 327    | 265    | 194    | 144    | 116  | 67.4 | 49.0 | 33.9 | 22.4 | 18.7 | 9.79 |
| XL12V50 | NAXL120050HMOFA | 174   | 112    | 86.4   | 73.2   | 54.5   | 40.6   | 31.7 | 19.2 | 14.1 | 9.21 | 6.12 | 5.26 | 2.88 |
| XL12V70 | NAXL120070HMOFA | 238   | 161    | 121    | 103    | 73.8   | 55.7   | 43.8 | 26.0 | 19.0 | 12.4 | 8.39 | 7.01 | 3.82 |
| XL12V85 | NAXL120085HMOFA | 289   | 190    | 148    | 125    | 92.4   | 68.5   | 55.3 | 32.9 | 24.5 | 16.5 | 10.8 | 8.87 | 4.74 |

**1.65 Vpc – Discharge in A at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 642   | 430    | 336    | 272    | 198    | 146    | 118  | 68.6 | 50.0 | 34.1 | 22.6 | 18.8 | 9.89 |
| XL12V50 | NAXL120050HMOFA | 183   | 116    | 89.2   | 74.7   | 55.5   | 41.1   | 32.2 | 19.4 | 14.3 | 9.31 | 6.12 | 5.26 | 2.88 |
| XL12V70 | NAXL120070HMOFA | 253   | 168    | 126    | 106    | 76.0   | 56.8   | 44.4 | 26.3 | 19.3 | 12.5 | 8.39 | 7.01 | 3.82 |
| XL12V85 | NAXL120085HMOFA | 319   | 201    | 154    | 129    | 94.6   | 70.1   | 56.7 | 33.6 | 24.9 | 16.7 | 10.9 | 8.87 | 4.74 |

| 1.60 Vpc – Discharge in A at 20 °C |                 |       |        |        |        |        |        |      |      |      |      |      |      |      |
|------------------------------------|-----------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| Type                               | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h  | 5 h  | 8 h  | 10 h | 20 h |
| XL6V180                            | NAXL060180HMOFA | 672   | 446    | 348    | 279    | 201    | 148    | 120  | 69.1 | 50.3 | 34.2 | 22.7 | 18.8 | 9.89 |
| XL12V50                            | NAXL120050HMOFA | 190   | 120    | 91.1   | 76.2   | 56.5   | 41.6   | 32.7 | 19.6 | 14.4 | 9.31 | 6.12 | 5.26 | 2.88 |
| XL12V70                            | NAXL120070HMOFA | 264   | 172    | 130    | 109    | 78.2   | 58.0   | 45.6 | 26.6 | 19.4 | 12.5 | 8.39 | 7.01 | 3.82 |
| XL12V85                            | NAXL120085HMOFA | 334   | 208    | 158    | 131    | 96.2   | 71.2   | 57.5 | 33.9 | 25.1 | 16.7 | 10.9 | 8.87 | 4.74 |

Figures are also valid for UL 94-V0 version.

Change "**H**" to "**V**" in the part number.

E.g.:

Standard NAXL120085 **H** M0MA

UL 94-V0 NAXL120085 **V** M0MA

**1.90 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h  | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|------|------|------|------|
| XL6V180 | NAXL060180HMOFA | 1680  | 1570   | 1310   | 1120   | 876    | 683    | 565 | 334 | 246 | 155  | 106  | 91.8 | 50.9 |
| XL12V50 | NAXL120050HMOFA | 1064  | 820    | 699    | 597    | 483    | 376    | 314 | 186 | 134 | 92.3 | 64.1 | 53.9 | 29.6 |
| XL12V70 | NAXL120070HMOFA | 1640  | 1230   | 1000   | 836    | 657    | 498    | 398 | 240 | 177 | 121  | 81.6 | 69.9 | 38.5 |
| XL12V85 | NAXL120085HMOFA | 1770  | 1380   | 1180   | 1070   | 854    | 647    | 534 | 327 | 244 | 152  | 106  | 91.7 | 48.7 |

**1.85 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|
| XL6V180 | NAXL060180HMOFA | 2140  | 1880   | 1520   | 1270   | 978    | 750    | 629 | 366 | 268 | 173 | 117  | 97.9 | 55.1 |
| XL12V50 | NAXL120050HMOFA | 1335  | 975    | 813    | 691    | 545    | 412    | 338 | 204 | 147 | 101 | 69.6 | 58.2 | 31.7 |
| XL12V70 | NAXL120070HMOFA | 1970  | 1430   | 1140   | 948    | 730    | 549    | 443 | 269 | 199 | 131 | 88.5 | 74.6 | 41.1 |
| XL12V85 | NAXL120085HMOFA | 2110  | 1630   | 1370   | 1220   | 943    | 712    | 589 | 358 | 266 | 168 | 116  | 98.8 | 52.8 |

**1.80 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|
| XL6V180 | NAXL060180HMOFA | 2510  | 2130   | 1680   | 1390   | 1040   | 796    | 661 | 387 | 285 | 181 | 121  | 101  | 57.2 |
| XL12V50 | NAXL120050HMOFA | 1560  | 1115   | 904    | 762    | 590    | 443    | 359 | 218 | 158 | 106 | 72.8 | 60.3 | 32.3 |
| XL12V70 | NAXL120070HMOFA | 2190  | 1570   | 1250   | 1020   | 780    | 586    | 473 | 283 | 210 | 140 | 91.9 | 77.5 | 42.3 |
| XL12V85 | NAXL120085HMOFA | 2370  | 1860   | 1540   | 1330   | 1020   | 759    | 622 | 375 | 276 | 177 | 121  | 102  | 54.7 |

**1.75 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|
| XL6V180 | NAXL060180HMOFA | 2740  | 2280   | 1780   | 1460   | 1090   | 830    | 688 | 398 | 293 | 187 | 124  | 102  | 58.1 |
| XL12V50 | NAXL120050HMOFA | 1690  | 1185   | 958    | 801    | 612    | 455    | 365 | 222 | 162 | 109 | 75.0 | 60.9 | 32.6 |
| XL12V70 | NAXL120070HMOFA | 2360  | 1670   | 1320   | 1070   | 817    | 616    | 495 | 289 | 215 | 143 | 94.2 | 79.2 | 42.9 |
| XL12V85 | NAXL120085HMOFA | 2680  | 2000   | 1600   | 1380   | 1050   | 780    | 640 | 380 | 282 | 182 | 123  | 103  | 55.6 |

**1.70 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|
| XL6V180 | NAXL060180HMOFA | 2960  | 2420   | 1860   | 1510   | 1110   | 838    | 696 | 403 | 297 | 191 | 127  | 103  | 58.6 |
| XL12V50 | NAXL120050HMOFA | 1795  | 1240   | 990    | 829    | 629    | 461    | 371 | 225 | 165 | 110 | 76.1 | 61.4 | 32.9 |
| XL12V70 | NAXL120070HMOFA | 2490  | 1740   | 1350   | 1100   | 831    | 631    | 506 | 293 | 218 | 145 | 95.4 | 80.4 | 43.1 |
| XL12V85 | NAXL120085HMOFA | 2940  | 2110   | 1660   | 1400   | 1060   | 791    | 649 | 385 | 286 | 184 | 124  | 104  | 55.9 |

**1.65 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|
| XL6V180 | NAXL060180HMOFA | 3160  | 2480   | 1900   | 1530   | 1120   | 844    | 701 | 407 | 301 | 193 | 128  | 104  | 58.8 |
| XL12V50 | NAXL120050HMOFA | 1860  | 1270   | 1010   | 839    | 634    | 464    | 374 | 227 | 167 | 110 | 76.1 | 61.4 | 33.2 |
| XL12V70 | NAXL120070HMOFA | 2600  | 1780   | 1380   | 1120   | 845    | 638    | 511 | 296 | 220 | 146 | 96.5 | 80.4 | 43.2 |
| XL12V85 | NAXL120085HMOFA | 3200  | 2210   | 1700   | 1420   | 1070   | 801    | 657 | 388 | 288 | 185 | 125  | 105  | 56.1 |

**1.60 Vpc – Discharge in W/block at 20 °C**

| Type    | Part number     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 5 h | 8 h  | 10 h | 20 h |
|---------|-----------------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|
| XL6V180 | NAXL060180HMOFA | 3260  | 2530   | 1940   | 1540   | 1130   | 848    | 704 | 409 | 303 | 194 | 128  | 104  | 58.8 |
| XL12V50 | NAXL120050HMOFA | 1895  | 1290   | 1010   | 850    | 640    | 466    | 376 | 228 | 168 | 110 | 76.1 | 61.4 | 33.4 |
| XL12V70 | NAXL120070HMOFA | 2680  | 1810   | 1400   | 1130   | 859    | 646    | 517 | 298 | 221 | 146 | 96.5 | 80.4 | 43.3 |
| XL12V85 | NAXL120085HMOFA | 3310  | 2270   | 1740   | 1440   | 1080   | 810    | 663 | 391 | 290 | 186 | 125  | 105  | 56.2 |







# GNB<sup>®</sup> INDUSTRIAL POWER



**ABSOLYTE<sup>™</sup>**

**MARATHON<sup>™</sup>**

**Sprinter<sup>®</sup>**

**Powerfit<sup>™</sup>**

**Sonnenschein<sup>®</sup>**

**Classic<sup>™</sup>**

**LIBERATOR**

**Element<sup>™</sup>**

**drysafe**

Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide provides a comprehensive and customized range of stored electrical energy solutions.

Based on over 100 years of experience in the development of innovative technologies, Exide is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications. The GNB Industrial Power business unit offers an extensive range of storage products and services, including solutions for

telecommunications systems, railway applications, mining, photovoltaic (solar energy), uninterruptible power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management programme, (an integrated approach to manufacturing, distributing and recycling of lead-acid batteries), has been developed to ensure a safe and responsible life cycle for all of its products.

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