

Voltage class 48V lithium-ion battery

Values for the parameters of electrochemical performance and shelf life in accordance with EU Battery Regulation 2023/1542, Article 10, Annex IV Part A:

| Article number | Rated capacity | Capacity fade | Power | Power fade | Internal resistance | Internal resistance increase | Energy round trip efficiency | Energy round trip efficiency fade | Expected life time | |
|----------------|----------------|---------------|--------|------------|---------------------|------------------------------|------------------------------|-----------------------------------|--------------------|----------|
| | | | | | | | | | In cycles | In years |
| | [Ah] | [%] | [W] | [%] | [mΩ] | [%] | [%] | [%] | [n] | [a] |
| 51543688 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 51543689 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3000 | 10 |
| 51544450 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 51544452 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3000 | 10 |
| 51544461 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3500 | 10 |
| 51544462 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3500 | 10 |
| 51544463 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3500 | 10 |
| 51544464 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3500 | 10 |
| 51544466 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3500 | 10 |
| 51544467 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3500 | 10 |
| 51669340 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 51669341 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 51669342 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3000 | 10 |

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Chairman of the Supervisory Board Rolf Najork

Board of Management Dr. Lars Brzoska, Chairman · Nadine Despieux · Dr. Volker Hues · Maik Manthey · Udo Panenka · Heike Wulff

Group Headquarters Hamburg · **Registration Court** Hamburg Commercial Register 44 885

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| | | | | | | | | | | |
|------------------------|-----|----|--------|-----|------|------|------|------|------|----|
| 51669343 | 260 | 40 | 13.312 | 1,3 | 16,7 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 51771615 | 260 | 40 | 13.312 | 1,3 | 16,7 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 51859555 | 666 | 20 | 34.033 | 0,6 | 3,6 | 11,2 | 94,8 | 0,03 | 4000 | 10 |
| 52512852 / 51962720 | 460 | 40 | 26.470 | 0,6 | 4,1 | 12,4 | 94,8 | 0,03 | 4000 | 10 |
| 52512853 / 51962723 | 330 | 40 | 18.907 | 0,6 | 5 | 13,9 | 94,8 | 0,03 | 4000 | 10 |
| 52512854 / 51962726 | 395 | 40 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |
| 52512855 / 51962729 | 330 | 40 | 18.907 | 0,6 | 5 | 13,9 | 94,8 | 0,03 | 4000 | 10 |
| 52512857 / 51962732 | 130 | 40 | 7.563 | 0,6 | 9,9 | 17,1 | 94,8 | 0,03 | 4000 | 10 |
| 52512851 / 51972655 | 265 | 40 | 15.126 | 0,6 | 5,8 | 14,8 | 94,8 | 0,03 | 4000 | 10 |
| 51972662 | 518 | 20 | 26.470 | 0,6 | 4,1 | 12,4 | 94,8 | 0,03 | 4000 | 10 |
| 51972665 | 444 | 20 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |
| 51975447 | 444 | 20 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |
| 51979601 | 400 | 40 | 26.470 | 0,6 | 4,1 | 12,4 | 94,8 | 0,03 | 4000 | 10 |
| 51979606 | 340 | 40 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |
| 51979608 | 340 | 40 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |
| 52512850 / 51979792 | 265 | 40 | 15.126 | 0,6 | 5,8 | 14,8 | 94,8 | 0,03 | 4000 | 10 |
| 52512849 / 51991436 | 395 | 40 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |
| 52344764 | 395 | 40 | 22.688 | 0,6 | 4,5 | 13,1 | 94,8 | 0,03 | 4000 | 10 |

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| | | | | | | | | | | |
|----------|------|----|--------|-----|-------|----|------|------|------|----|
| 52354729 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3500 | 10 |
| 52354741 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3500 | 10 |
| 52354742 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3500 | 10 |
| 52354743 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3500 | 10 |
| 52354744 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3500 | 10 |
| 52354745 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3500 | 10 |
| 52354746 | 260 | 40 | 13.312 | 1,3 | 16,7 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 52354747 | 390 | 40 | 19.968 | 1,3 | 11,1 | 15 | 91,5 | 1,27 | 3000 | 10 |
| 52354748 | 520 | 40 | 26.624 | 1,3 | 8,4 | 15 | 91,5 | 1,28 | 3000 | 10 |
| 52369245 | 302 | 40 | 15.462 | 1,6 | 18,6 | 15 | 91,8 | 1,23 | 4000 | 10 |
| 52369258 | 302 | 40 | 15.462 | 1,6 | 18,6 | 15 | 91,8 | 1,23 | 4000 | 10 |
| 52369261 | 456 | 40 | 23.347 | 2,1 | 16 | 15 | 92,9 | 1,07 | 4000 | 10 |
| 52369262 | 604 | 40 | 30.925 | 2,5 | 14,3 | 15 | 91,6 | 1,26 | 4000 | 10 |
| 52410803 | 200 | 40 | 11.673 | 0,9 | 14,14 | 15 | 96,4 | 0,54 | 4000 | 10 |
| 52410806 | 400 | 40 | 23.244 | 0,9 | 7,07 | 15 | 96,4 | 0,54 | 4000 | 10 |
| 52431320 | 600 | 40 | 34.918 | 0,9 | 4,71 | 15 | 96,4 | 0,54 | 4000 | 10 |
| 52410807 | 200 | 40 | 11.673 | 1,0 | 14,9 | 15 | 96,2 | 0,57 | 4000 | 10 |
| 52511879 | 800 | 40 | 46.694 | 0,9 | 3,54 | 15 | 96,4 | 0,54 | 4000 | 10 |
| 52511878 | 1000 | 40 | 58.368 | 0,9 | 2,83 | 15 | 96,4 | 0,54 | 4000 | 10 |

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The values given for the parameters of electrochemical performance and durability correspond to the requirements of Article 10 (1) EU Battery Regulation and were compiled (measured, calculated and estimated) on the basis of cell data and manufacturer information. The elements specified in Annex IV Part B were taken into account; however, in the absence of harmonised standardisation, other values may result under real operating conditions and customer applications.

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