



Data provision in accordance with EU Regulation 2023/1542 on Batteries and Waste Batteries

This document outlines the current vehicle-specific performance and durability parameters as well as the associated boundary conditions according to Article 10 of the EU Battery Regulation 2023/1542. The list only contains vehicle models introduced onto the market after 18/8/2024.

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Boundary conditions for high-voltage battery:

Parameter	Technical specification	Explanation for customers
Rated capacity [Ah]	BEV: C rate: 1/3 C, 25°C, new battery condition PHEV: C rate: 1°C, 25°C, new battery condition	This value applies to the new battery condition.
Capacity fade [%]	8 years or 160,000 km Normal customer behaviour, European market	The specified value relates to -predicted, normal customer behaviour* after 8 years or 160,00 km and varies depending on driving style, charging behaviour, stationary periods and environmental influences.
Peak power [W]	Peak power 80% SOC / 20% SOC 25°C, new battery condition	This value applies to the new battery condition. SOC: State of charge of the battery
Power fade [%]	Peak power 80% SOC, 5 years Normal customer behaviour, European market	The specified value relates to predicted, normal customer behaviour* after 5 years and varies depending on driving style, charging behaviour, stationary periods and environmental influences.
Internal resistance [Ω]	Temperature: 25°C, SOC: 50%, duration: 10 s, new battery condition	This value applies to the new battery condition.
Internal resistance increase [%]	5 years Normal customer behaviour, European market	The specified value relates to predicted, normal customer behaviour* after 5 years and varies depending on driving style, charging behaviour, stationary periods and environmental influences.
Expected service life [years]	Normal customer behaviour, European market	The specified guide value for product service life is based on predictions of normal customer behaviour*. The actual service life can however vary depending on individual driving style, charging behaviour, stationary periods and environmental influences. No warranty claims can be derived from the expected service life prediction.

*Normal customer behaviour takes into account the recommendations in the "High-voltage battery service life" section of the Owner's Handbook.

The values indicated here are valid for the above-mentioned boundary conditions:

Vehicle	Model code	High-voltage battery.	Rated capacity [Ah]	Capacity fade [%]	Peak power 80% SOC / 20% SOC [W]	Power fade [%]	Internal resistance [Ω]	Increase in internal resistance [%]	Expected service life [years]
225e xDrive	21EA, 22EA	SP052	51.0	less than 28%	143000 / 121000	less than 10%	0.12	less than 50%	15 years
230e xDrive	51BX, 52BX	SP052	51.0	less than 28%	143000 / 121000	less than 10%	0.12	less than 50%	15 years
320e	41FY, 42FY, 18FS, 11FS	SP041	34.0	less than 28%	101000 / 90000	less than 10%	0.13	less than 50%	15 years
320e xDrive	51FY	SP041	34.0	less than 28%	101000 / 90000	less than 10%	0.13	less than 50%	15 years
330e	41GL, 42GL, 40GK, 41GK, 42GK, 48GK	SP051	58.0	less than 28%	185000 / 158000	less than 10%	0.15	less than 50%	15 years
330e	82CY, 81CY, 20FS, 21FS, 22FS, 28FS	SP041	34.0	less than 28%	101000 / 90000	less than 10%	0.13	less than 50%	15 years
330e xDrive	30FS, 31FS, 32FS, 38FS, 71CY, 72CY	SP041	34.0	less than 28%	101000 / 90000	less than 10%	0.13	less than 50%	15 years
330e xDrive	50GK, 51GK, 52GK, 51GL, 52GL, 58GK	SP051	58.0	less than 28%	185000 / 158000	less than 10%	0.15	less than 50%	15 years
530e	21GV, 22GV, 71FJ, 72FJ	SP056	63.5	less than 28%	169000 / 146000	less than 10%	0.12	less than 50%	15 years
530e xDrive	31GV, 81FJ	SP056	63.5	less than 28%	169000 / 146000	less than 10%	0.12	less than 50%	15 years
550e xDrive	11FK, 12FK, 41GV, 42GV	SP056	63.5	less than 28%	169000 / 146000	less than 10%	0.12	less than 50%	15 years
750e xDrive	41EH, 42EH	SP056	63.5	less than 28%	169000 / 146000	less than 10%	0.12	less than 50%	15 years
i4 eDrive35	42AW, 41AW, 11HD, 12HD, 51HD, 52HD	SE026	198.6	less than 28%	491000 / 421000	less than 10%	0.04	less than 50%	15 years
i4 eDrive40	72AW, 71AW, 21HD, 22HD, 61HD, 62 HD	SE027 RWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years

i4 M50	32AW, 31AW	SE027 AWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i4 M50 xDrive	32HD, 31HD	SE027 AWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i4 M60 xDrive	71HD, 72HD	SE027 AWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i4 xDrive40	41HD, 42HD	SE027 AWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i5 eDrive40	31FK, 32FK, 11HH, 12HH, 61HG, 62HG, 71HH, 72HH	SE027 RWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i5 M60 xDrive	41FK, 42FK, 31HH, 32HH, 41HG, 42HG, 61HH, 62HH	SE027 AWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i5 xDrive40	11HG, 12HG, 21HH, 22HH, 31HG, 32HG, 51HH, 52HH	SE027 AWD	210.6	less than 28%	518000 / 438000	less than 10%	0.05	less than 50%	15 years
i7 eDrive50	41EJ, 42EJ	SE030R	280.8	less than 28%	533000 / 452000	less than 10%	0.03	less than 50%	15 years
i7 M70 xDrive	81EH, 82EH	SE030S	280.8	less than 28%	565000 / 477000	less than 10%	0.03	less than 50%	15 years
i7 xDrive60	52EJ, 51EJ (until vehicle production 10/24)	SE030H	280.8	less than 28%	533000 / 452000	less than 10%	0.03	less than 50%	15 years
i7 xDrive60	52EJ, 51EJ (from vehicle production 11/24)	SE030S	280.8	less than 28%	565000 / 477000	less than 10%	0.03	less than 50%	15 years
i7 xDrive60 Protection	61EK, 62EK	SE030S	280.8	less than 28%	565000 / 477000	less than 10%	0.03	less than 50%	15 years
iX M60	31CF, 32CF	SE010	303.0	less than 28%	586000 / 497000	less than 10%	0.03	less than 50%	15 years
iX M70 xDrive	61CF, 62CF	SE010	303.0	less than 28%	586000 / 497000	less than 10%	0.03	less than 50%	15 years
iX xDrive40	11CF, 12CF	SE011	232.0	less than 28%	274000 / 235000	less than 10%	0.04	less than 50%	15 years
iX xDrive45	41CF, 42CF	SE050	303.0	less than 28%	538000/451000	less than 10%	0.03	less than 50%	15 years
iX xDrive50	21CF, 22CF	SE010	303.0	less than 28%	586000 / 497000	less than 10%	0.03	less than 50%	15 years



iX xDrive60	51CF, 52CF	SE010	303.0	less than 28%	586000 / 497000	less than 10%	0.03	less than 50%	15 years
iX1 eDrive20	71EG, 72EG, 11HM, 12HM	SE013	232.0	less than 28%	237000 / 202000	less than 10%	0.04	less than 50%	15 years
iX1 xDrive30	61EF, 62EF, 21HM, 22HM	SE012	232.0	less than 28%	237000 / 202000	less than 10%	0.04	less than 50%	15 years
iX2 eDrive20	51GM, 52GM, 71GN, 72GN	SE013	232.0	less than 28%	237000 / 202000	less than 10%	0.04	less than 50%	15 years
iX2 xDrive30	71GM, 72GM, 81GN, 82GN	SE012	232.0	less than 28%	237000 / 202000	less than 10%	0.04	less than 50%	15 years
iX3 50 xDrive	31HR, 32HR	B6GE0_001	162,3	less than 28%	535000 / 449000	less than 10%	0.14	less than 50%	15 years
iX3 M Sport	41DU, 42DU	SE016	232.0	less than 28%	298000 / 256000	less than 10%	0.05	less than 50%	15 years
M5	81FK, 82FK, 81GV, 82GV	SP056	63.5	less than 28%	169000 / 146000	less than 10%	0.12	less than 50%	15 years
M760e xDrive	51EH, 52EH	SP056	63.5	less than 28%	169000 / 146000	less than 10%	0.12	less than 50%	15 years
X1 xDrive25e	21EF, 22EF	SP052	51.0	less than 28%	143000 / 121000	less than 10%	0.12	less than 50%	15 years
X1 xDrive30e	31EF, 32EF	SP052	51.0	less than 28%	143000 / 121000	less than 10%	0.12	less than 50%	15 years
X3 30e xDrive	65GP, 66GP	SP051	58.0	less than 28%	185000 / 158000	less than 10%	0.15	less than 50%	15 years
X3 xDrive30e	61DP, 62DP	SP041	34.0	less than 28%	101000 / 90000	less than 10%	0.13	less than 50%	15 years
X5 xDrive50e	41EU, 42EU	SP054	93.0	less than 28%	184000 / 160000	less than 10%	0.08	less than 50%	15 years
XM	21CS, 22CS	SP054	93.0	less than 28%	184000 / 160000	less than 10%	0.08	less than 50%	15 years
XM 50e	11CS, 12CS	SP054	93.0	less than 28%	184000 / 160000	less than 10%	0.08	less than 50%	15 years
XM Label	31CS, 32CS	SP054	93.0	less than 28%	184000 / 160000	less than 10%	0.08	less than 50%	15 years



SOCE

The state of health of the battery (SOCE, State of Certified Energy) indicates the percentage of momentarily available energy compared to the maximum usable energy in the new vehicle. To read out the current state of health for your vehicle, please log into BMW ConnectedDrive using your BMW ID.

<https://www.bmw.de/de/shop/ls/cp/connected-drive>

You can request a digital vehicle archive in the CarData portal. You will receive a table of all the stored telematics data, including the SOCE and the time of the last recording. The SOCE parameter is indicated as the "State of health of the high-voltage battery (SOCE)".