

## Voltage class 80V lead-acid 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	Supplier 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]
26903580	19987	930	20	12764	20	0,31	>25	up to 77,5	2,6	1500	6
26903580	19985/19986	930	20	74400	20	0,418	20	78	6	1500	5
26903580	45392	930	20	4241	1	5,456	25	73	3	1500	5
26903580	19982/19983	930	20	74400	20	0,519	116,37	73	15	1500	5
50004132	19982/19983	620	20	49600	20	0,529	20	78	6	1500	5
50004134	19987	775	20	62000	20	0,465	20	78	6	1500	5
50004134	19985/19986	775	20	3534	1	6,303	25	74	3	1500	5
50004134	19990	620	20	2827	1	7,723	25	74	3	1500	5
50004134	45392	775	20	3534	1	6,303	25	74	3	1500	5
50004134	19982/19983	930	20	74400	20	0,519	116,37	73	15	1500	5
50004135	19987	775	20	10636	20	0,37	>25	up to 77,5	2,6	1500	6
50004135	19982/19983	640	20	51200	20	0,9	108,78	77,5	15	1500	5
50004138	19987	840	20	67200	20	0,9	108,78	77,5	15	1500	5

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Deutsche Bank AG Hamburg (BIC: DEUTDEHHXXX) IBAN: DE96 2007 0000 0042 9977 00; (BLZ 200 700 00) 0 429 977

50004138	19985/19986	990	20	79200	20	0,9	108,78	77,5	15	1500	5
50004138	19990	930	20	12764	20	0,31	>25	up to 77,5	2,6	1500	6
50004138	45392	620	20	49600	20	0,519	116,37	73	15	1500	5
50004138	19982/19983	775	20	62000	20	0,519	116,37	73	15	1500	5
50103279	19987	620	20	2827	1	7,723	25	74	3	1500	5
50103279	19982/19983	775	20	3534	1	6,303	25	74	3	1500	5
50103280	19987	930	20	4241	1	5,456	25	73	3	1500	5
50103280	45392	930	20	4241	1	5,456	25	73	3	1500	5
50103280	19982/19983	775	20	3534	1	6,303	25	74	3	1500	5
50103289	19987	930	20	4241	1	5,456	25	73	3	1500	5
50103289	19985/19986	860	20	68800	20	0,438	20	78	6	1500	5
50103289	19990	1085	20	86800	20	0,382	20	78	6	1500	5
50103289	45392	1085	20	83762	20	12,4	10	85	5	1500	5
50103289	19982/19983	1085	20	4948	1	4,853	25	73	3	1500	5
50103291	19982/19983	775	20	62000	20	0,465	20	78	6	1500	5
50261270	19987	775	20	3534	1	6,303	25	74	3	1500	5
50261270	45392	930	20	4241	1	5,456	25	73	3	1500	5
50261270	19982/19983	930	20	12764	20	0,31	>25	up to 77,5	2,6	1500	6
50261272	19987	930	20	74400	20	0,418	20	78	6	1500	5
50261272	19985/19986	930	20	4241	1	5,456	25	73	3	1500	5

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50261272	19990	930	20	74400	20	0,519	116,37	73	15	1500	5
50261272	45392	620	20	49600	20	0,529	20	78	6	1500	5
50261272	19982/19983	775	20	62000	20	0,465	20	78	6	1500	5
50261273	19987	775	20	3534	1	6,303	25	0,74	3	1500	5
50261273	19985/19986	620	20	2827	1	7,723	25	74	3	1500	5
50261273	45392	775	20	3534	1	6,303	25	74	3	1500	5
50261273	19982/19983	930	20	74400	20	0,519	116,37	73	15	1500	5
51023191	19982/19983	775	20	10636	20	0,37	>25	up to 77,5	2,6	1500	6
51023209	19982/19983	640	20	51200	20	0,9	108,78	77,5	15	1500	5
51023227	19982/19983	840	20	67200	20	0,9	108,78	77,5	15	1500	5
51023229	19982/19983	990	20	79200	20	0,9	108,78	77,5	15	1500	5
51065307	19987	930	20	12764	20	0,31	>25	up to 77,5	2,6	1500	6
51065307	19990	620	20	49600	20	0,519	116,37	73	15	1500	5
51065308	19987	775	20	62000	20	0,519	116,37	73	15	1500	5
51094801	19987	620	20	2827	1	7,723	25	74	3	1500	5
51118714	19987	775	20	3534	1	6,303	25	74	3	1500	5
51118714	19985/19986	930	20	4241	1	5,456	25	73	3	1500	5
51118714	45392	930	20	4241	1	5,456	25	73	3	1500	5
51118714	19982/19983	775	20	3534	1	6,303	25	74	3	1500	5
51126415	19987	930	20	4241	1	5,456	25	73	3	1500	5

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51126415	19985/19986	860	20	68800	20	0,438	20	78	6	1500	5
51126415	45392	1085	20	86800	20	0,382	20	78	6	1500	5
51126415	19982/19983	1085	20	83762	20	12,4	10	85	5	1500	5
51126417	19987	1085	20	4948	1	4,853	25	73	3	1500	5
51126417	45392	775	20	62000	20	0,465	20	78	6	1500	5
51126417	19982/19983	775	20	3534	1	6,303	25	74	3	1500	5
51126423	19987	930	20	4241	1	5,456	25	73	3	1500	5
51126423	19985/19986	930	20	12764	20	0,31	>25	up to 77,5	2,6	1500	6
51126423	45392	930	20	74400	20	0,418	20	78	6	1500	5
51126423	19982/19983	930	20	4241	1	5,456	25	73	3	1500	5
51148354	19985/19986	930	20	74400	20	0,519	116,37	73	15	1500	5
51148355	19985/19986	620	20	49600	20	0,529	20	78	6	1500	5
51148355	45392	775	20	62000	20	0,465	20	78	6	1500	5
51214680	45392	775	20	3534	1	6,303	25	0,74	3	1500	5
51214681	45392	620	20	2827	1	7,723	25	74	3	1500	5
51339369	19982/19983	775	20	3534	1	6,303	25	74	3	1500	5
51350479	19987	930	20	74400	20	0,519	116,37	73	15	1500	5
51354749	19982/19983	775	20	10636	20	0,37	>25	up to 77,5	2,6	1500	6
51354751	19982/19983	640	20	51200	20	0,9	108,78	77,5	15	1500	5
51354752	19982/19983	840	20	67200	20	0,9	108,78	77,5	15	1500	5

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51385324	19987	990	20	79200	20	0,9	108,78	77,5	15	1500	5
51426772	41008	930	20	12764	20	0,31	>25	up to 77,5	2,6	1500	6
51426773	41008	620	20	49600	20	0,519	116,37	73	15	1500	5
51440692	45392	775	20	62000	20	0,519	116,37	73	15	1500	5
51440693	45392	620	20	2827	1	7,723	25	74	3	1500	5
51440696	45392	775	20	3534	1	6,303	25	74	3	1500	5
51441680	45392	930	20	4241	1	5,456	25	73	3	1500	5
51441685	45392	930	20	4241	1	5,456	25	73	3	1500	5
51521335	45392	775	20	3534	1	6,303	25	74	3	1500	5
51538512	19985/19986	930	20	4241	1	5,456	25	73	3	1500	5
51586000	19985/19986	860	20	68800	20	0,438	20	78	6	1500	5
51586000	19990	1085	20	86800	20	0,382	20	78	6	1500	5
51586000	45392	1085	20	83762	20	12,4	10	85	5	1500	5
51586002	19985/19986	1085	20	4948	1	4,853	25	73	3	1500	5
51586002	45392	775	20	62000	20	0,465	20	78	6	1500	5
51688762	45392	775	20	3534	1	6,303	25	74	3	1500	5

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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