



Industrial Batteries – Network Power
Powerfit S500
High energy density for maximum security.

Specifications

If cost efficiency and high performance are requested.

Specifications

- Especially designed for safety power supplies and UPS, Powerfit S500 batteries with their reliable high current discharge character are perfect for these applications
- Perfect combination between energy storage and high current performance
- Maintenance-free (no topping up) during the whole service life
- Nominal capacity 25 – 185 Ah
- 7 years design life at 20 °C ambient temperature (80% remaining capacity)
- Case material acc. to UL 94-HB
- Designed in accordance with IEC 60896-21/-22
- Grid plate construction consisting of a lead calcium alloy
- Low gas emission due to internal gas recombination (99% efficient)
- Low self-discharge rate (about 3%/month at 20 °C)
- Trouble-free transportation of operational blocks, no restrictions for most rail, road, sea and air transportation (IATA, DGR clause A 67)
- Completely recyclable



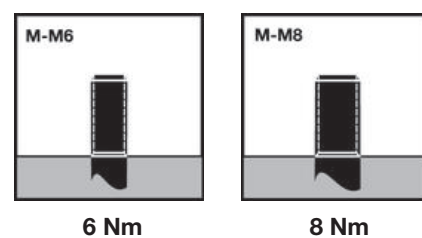
Applications

As well as its suitability for general applications in security systems, the Powerfit S500 can be a reliable energy source for UPS systems and emergency lighting.



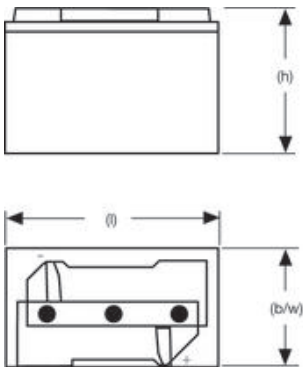
 Design life in years: 7	 Nominal capacity 25.0 – 185 Ah	 Block battery	 Grid plate
 Recyclable	 Valve regulated lead-acid batteries	 Maintenance-free (no topping-up)	

Type	Part number	Nom. voltage V	Nominal capacity C_{20} 1.75 Vpc 20 °C Ah	Nominal capacity C_{10} 1.75 Vpc 20 °C Ah	Nominal capacity C_1 1.60 Vpc 20 °C Ah	Length (l) max. mm	Width (b/w) max. mm	Height (h1) max. mm	Weight approx. kg	Internal resistance mOhm	Terminal
S506/130	NAS5060130HW0MC	6	128	121	80.0	272	166	190	23.0	2.40	M-M8
S506/185	NAS5060185HW0MA	6	185	174	116	359	171	226	31.5	1.90	M-M8
S512/25	NAS5120025HW0MA	12	25.0	23.5	15.8	168	127	174	9.50	18.8	M-M6
S512/38	NAS5120038HW0MC	12	38.0	36.0	23.2	198	168	175	13.5	14.7	M-M6
S512/50	NAS5120050HW0MC	12	51.0	48.0	32.5	234	169	190	18.5	10.2	M-M6
S512/60	NAS5120060HW0MC	12	61.0	58.0	40.8	272	166	190	23.0	8.40	M-M6
S512/92	NAS5120092HW0MA	12	92.0	87.0	54.4	359	172	226	30.0	7.60	M-M8

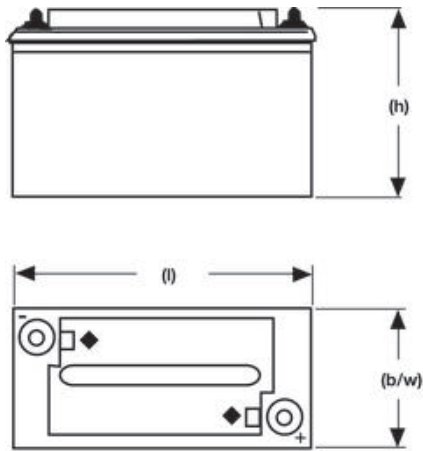
Container, terminal and torque


Container: UL 94-HB = Polypropylen (PP)

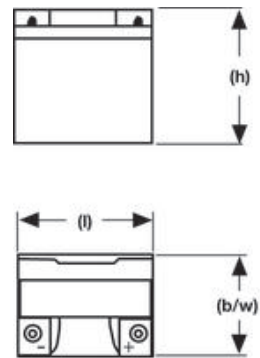
S506/130



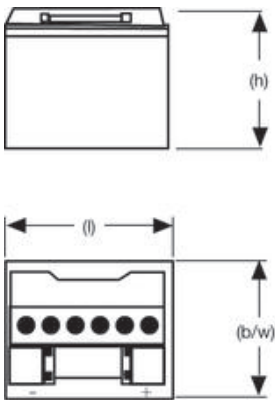
S506/185



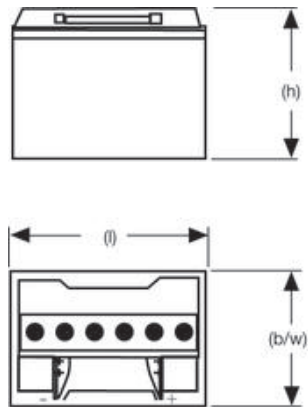
S512/25



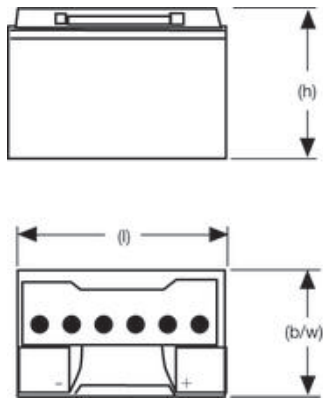
S512/38



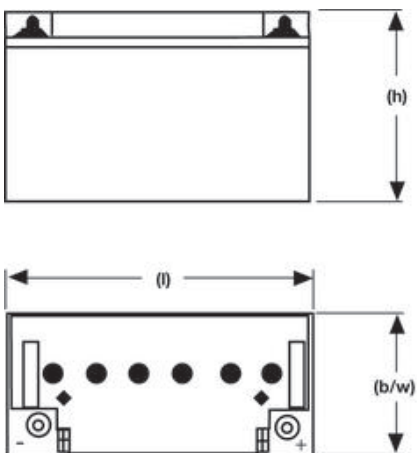
S512/50



S512/60



S512/92



Not to scale!

1.95 Vpc – Discharge in A at 20 °C															
Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	152	149	133	118	105	86.0	66.0	54.0	30.8	23.5	15.3	10.4	9.10	4.80
S506/185	NAS5060185HW0MA	186	184	180	163	148	123	95.0	78.0	46.0	32.0	21.0	14.3	13.0	6.90
S512/25	NAS5120025HW0MA	35.0	34.0	29.0	25.0	22.0	17.3	13.1	10.7	6.30	4.60	3.10	2.10	1.80	1.00
S512/38	NAS5120038HW0MC	48.0	47.0	41.0	35.0	31.0	25.0	19.0	15.3	9.00	6.50	4.50	3.00	2.60	1.40
S512/50	NAS5120050HW0MC	68.0	66.0	58.0	50.0	43.0	35.0	27.0	22.0	12.5	8.90	6.10	4.20	3.60	1.90
S512/60	NAS5120060HW0MC	102	95.0	79.0	65.0	55.0	43.0	31.5	24.7	14.9	11.0	7.30	4.90	4.20	2.20
S512/92	NAS5120092HW0MA	106	100	87.0	75.0	68.0	56.5	44.0	36.0	22.0	16.2	10.5	7.20	6.40	3.40

1.90 Vpc – Discharge in A at 20 °C															
Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	232	220	182	151	130	103	78.5	64.0	37.8	28.0	18.8	12.4	10.8	5.70
S506/185	NAS5060185HW0MA	285	272	241	209	184	146	112	91.0	52.7	37.4	24.5	16.8	15.4	8.20
S512/25	NAS5120025HW0MA	56.0	50.0	39.0	31.0	26.0	20.1	15.4	12.6	7.70	5.80	3.70	2.40	2.10	1.10
S512/38	NAS5120038HW0MC	78.0	70.0	54.0	44.0	37.0	29.0	22.0	18.0	11.3	8.40	5.60	3.70	3.20	1.70
S512/50	NAS5120050HW0MC	111	99.0	77.0	63.0	53.0	41.0	31.5	26.3	15.3	10.7	7.60	5.00	4.30	2.30
S512/60	NAS5120060HW0MC	152	136	103	81.0	67.0	51.0	37.5	29.7	18.5	13.6	9.00	5.90	4.90	2.60
S512/92	NAS5120092HW0MA	156	141	113	94.0	82.0	66.0	50.5	42.0	26.0	19.0	12.5	8.70	7.70	4.10

1.85 Vpc – Discharge in A at 20 °C															
Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	312	283	225	181	150	113	86.0	71.0	43.0	31.4	20.8	13.8	11.4	6.00
S506/185	NAS5060185HW0MA	381	354	296	250	214	166	123	100	57.8	41.0	27.8	18.8	16.2	8.60
S512/25	NAS5120025HW0MA	76.0	64.0	47.0	36.5	30.0	22.7	17.1	14.0	8.30	6.30	4.00	2.60	2.20	1.20
S512/38	NAS5120038HW0MC	108	90.0	65.0	52.0	43.0	32.0	24.5	20.0	12.5	9.40	6.10	4.00	3.40	1.80
S512/50	NAS5120050HW0MC	153	129	94.0	73.0	61.0	46.0	35.0	28.5	16.9	12.2	8.30	5.50	4.50	2.40
S512/60	NAS5120060HW0MC	198	168	122	95.0	78.0	57.0	41.5	33.6	20.4	15.1	9.80	6.40	5.30	2.80
S512/92	NAS5120092HW0MA	201	176	136	111	94.0	74.0	56.0	47.0	28.5	21.0	13.8	9.40	8.10	4.30

1.80 Vpc – Discharge in A at 20 °C															
Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	382	336	257	199	163	122	91.0	74.0	45.0	33.7	21.8	14.3	11.8	6.20
S506/185	NAS5060185HW0MA	468	417	333	272	231	179	133	106	61.2	44.2	29.2	19.7	17.0	9.00
S512/25	NAS5120025HW0MA	92.0	76.0	52.0	40.0	32.5	24.7	18.2	14.9	9.00	6.80	4.20	2.70	2.30	1.20
S512/38	NAS5120038HW0MC	131	108	75.0	58.0	48.0	36.0	27.0	21.8	13.4	10.2	6.50	4.20	3.50	1.90
S512/50	NAS5120050HW0MC	181	151	107	83.0	68.0	51.0	38.0	30.5	18.4	13.6	8.70	5.70	4.70	2.50
S512/60	NAS5120060HW0MC	231	190	134	104	84.0	61.5	45.0	36.4	21.8	16.0	10.5	6.80	5.60	3.00
S512/92	NAS5120092HW0MA	236	205	155	123	104	80.0	60.0	49.7	29.5	21.9	14.5	9.90	8.50	4.50

1.75 Vpc – Discharge in A at 20 °C															
Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	440	384	276	215	174	128	94.0	77.0	46.4	34.8	22.3	14.6	12.1	6.40
S506/185	NAS5060185HW0MA	529	467	362	291	245	187	139	110	63.3	45.5	30.0	20.2	17.4	9.30
S512/25	NAS5120025HW0MA	104	83.0	56.0	43.0	34.5	25.7	18.8	15.1	9.20	6.90	4.30	2.80	2.40	1.30
S512/38	NAS5120038HW0MC	147	118	82.0	62.0	50.0	37.0	27.5	22.3	13.6	10.4	6.60	4.30	3.60	1.90
S512/50	NAS5120050HW0MC	206	168	116	88.0	71.0	53.0	39.0	31.0	18.9	13.9	8.90	5.80	4.80	2.60
S512/60	NAS5120060HW0MC	256	208	145	109	89.0	64.5	47.0	38.3	22.4	16.5	10.7	7.00	5.80	3.10
S512/92	NAS5120092HW0MA	269	226	164	130	108	82.0	62.0	51.0	30.5	22.6	14.9	10.2	8.70	4.60

1.70 Vpc – Discharge in A at 20 °C

Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	479	412	293	223	179	133	97.0	78.0	47.2	35.6	22.7	14.8	12.3	6.60
S506/185	NAS5060185HW0MA	583	512	389	308	253	192	142	112	64.6	46.3	30.7	20.6	17.8	9.40
S512/25	NAS5120025HW0MA	112	89.0	60.0	45.0	36.5	26.5	19.2	15.3	9.30	7.00	4.40	2.90	2.40	1.30
S512/38	NAS5120038HW0MC	160	128	86.0	65.0	52.0	38.0	28.0	22.7	13.8	10.5	6.70	4.40	3.70	2.00
S512/50	NAS5120050HW0MC	223	181	121	92.0	74.0	54.5	40.0	31.5	19.1	14.1	9.00	5.90	4.90	2.60
S512/60	NAS5120060HW0MC	276	223	152	114	92.0	66.5	49.0	39.2	23.0	17.0	10.8	7.10	5.90	3.20
S512/92	NAS5120092HW0MA	309	253	175	136	112	84.0	63.5	52.3	31.3	23.2	15.3	10.3	8.80	4.70

1.65 Vpc – Discharge in A at 20 °C

Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	506	432	303	230	186	136	99.0	79.0	47.8	36.2	22.9	14.9	12.9	6.70
S506/185	NAS5060185HW0MA	643	555	404	316	260	196	144	114	65.8	47.3	30.9	20.8	17.9	9.50
S512/25	NAS5120025HW0MA	119	94.0	62.0	46.0	37.5	27.2	19.6	15.5	9.40	7.00	4.40	2.90	2.40	1.30
S512/38	NAS5120038HW0MC	169	134	88.0	66.0	53.0	39.0	28.5	23.0	14.0	10.6	6.80	4.40	3.70	2.00
S512/50	NAS5120050HW0MC	238	190	126	95.0	76.0	55.5	40.5	32.0	19.3	14.3	9.10	5.90	4.90	2.60
S512/60	NAS5120060HW0MC	297	237	158	119	95.0	68.5	50.0	39.8	23.3	17.3	10.9	7.10	5.90	3.20
S512/92	NAS5120092HW0MA	347	279	185	141	115	86.0	65.0	53.6	32.0	23.6	15.4	10.4	8.80	4.70

1.60 Vpc – Discharge in A at 20 °C

Type	Part number	3 min	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
S506/130	NAS5060130HW0MC	519	441	312	237	190	138	100	80.0	48.4	26.6	23.1	15.0	12.5	6.70
S506/185	NAS5060185HW0MA	678	581	419	328	267	199	146	116	66.3	47.6	31.0	20.9	17.9	9.50
S512/25	NAS5120025HW0MA	123	97.0	64.0	47.0	38.5	27.9	19.9	15.8	9.50	7.00	4.40	2.90	2.40	1.30
S512/38	NAS5120038HW0MC	174	138	90.0	67.0	54.0	40.0	29.0	23.2	14.1	10.7	6.80	4.40	3.70	2.00
S512/50	NAS5120050HW0MC	248	197	130	97.0	77.0	56.5	41.0	32.5	19.5	14.4	9.10	5.90	4.90	2.60
S512/60	NAS5120060HW0MC	311	247	162	122	97.0	70.5	51.0	40.8	23.5	17.4	10.9	7.10	5.90	3.20
S512/92	NAS5120092HW0MA	370	292	192	145	117	87.5	66.0	54.4	32.3	23.8	15.4	10.4	8.80	4.70

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	1365	1282	1078	890	764	609	466	385	231	168	113	75.0	63.0
S506/185	NAS5060185HW0MA	1636	1580	1404	1222	1081	869	667	535	313	222	148	103	91.0
S512/25	NAS5120025HW0MA	660	588	448	362	305	240	185	153	92.0	68.0	44.0	29.0	25.0
S512/38	NAS5120038HW0MC	927	818	627	515	436	340	263	216	133	100	67.0	44.0	37.0
S512/50	NAS5120050HW0MC	1338	1170	896	727	610	481	375	313	185	134	90.0	59.0	50.0
S512/60	NAS5120060HW0MC	1806	1593	1197	958	798	605	446	359	220	160	107	71.0	60.0
S512/92	NAS5120092HW0MA	1836	1643	1272	1090	965	778	606	505	313	230	152	105	90.0

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	1806	1617	1281	1035	861	665	511	420	255	188	124	81.0	68.0
S506/185	NAS5060185HW0MA	2141	2010	1677	1414	1232	970	732	596	343	242	165	113	97.0
S512/25	NAS5120025HW0MA	859	732	529	419	348	267	205	167	100	73.0	48.0	31.0	26.0
S512/38	NAS5120038HW0MC	1220	1025	747	598	498	382	291	240	149	112	73.0	48.0	40.0
S512/50	NAS5120050HW0MC	1719	1456	1064	846	706	543	411	337	202	147	99.0	64.0	54.0
S512/60	NAS5120060HW0MC	2228	1909	1390	1097	904	672	492	399	246	180	116	77.0	64.0
S512/92	NAS5120092HW0MA	2258	1960	1505	1263	1100	859	666	556	343	250	167	115	97.0

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	2100	1911	1463	1148	945	714	536	439	267	198	130	84.0	70.0
S506/185	NAS5060185HW0MA	2565	2353	1899	1566	1343	1040	777	626	363	257	173	117	101
S512/25	NAS5120025HW0MA	1013	845	597	459	378	286	216	176	104	78.0	50.0	32.0	27.0
S512/38	NAS5120038HW0MC	1440	1195	855	664	548	415	313	257	159	120	77.0	50.0	41.5
S512/50	NAS5120050HW0MC	2004	1697	1210	941	778	588	442	358	216	158	104	67.0	56.0
S512/60	NAS5120060HW0MC	2540	2128	1523	1197	978	718	525	426	259	190	124	80.0	66.5
S512/92	NAS5120092HW0MA	2605	2202	1717	1414	1202	929	710	588	359	260	176	120	101

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	2352	2100	1554	1218	994	749	551	448	273	203	133	86.0	71.0
S506/185	NAS5060185HW0MA	2838	2570	2040	1656	1414	1087	810	652	373	264	178	120	102
S512/25	NAS5120025HW0MA	1112	915	635	486	400	297	221	178	106	80.0	51.0	33.0	28.0
S512/38	NAS5120038HW0MC	1585	1300	909	706	577	432	320	261	161	122	79.0	51.5	42.5
S512/50	NAS5120050HW0MC	2212	1837	1288	997	818	610	454	364	220	162	107	69.0	56.5
S512/60	NAS5120060HW0MC	2746	2288	1623	1264	1026	752	552	446	264	194	126	82.0	68.0
S512/92	NAS5120092HW0MA	2899	2485	1840	1475	1242	958	730	605	364	265	181	122	102

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	2541	2230	1624	1260	1029	763	559	455	277	207	134	87.0	72.0
S506/185	NAS5060185HW0MA	3101	2778	2161	1727	1454	1101	818	659	378	268	182	123	103
S512/25	NAS5120025HW0MA	1188	972	664	505	411	305	224	180	107	81.0	52.0	34.0	28.0
S512/38	NAS5120038HW0MC	1697	1378	950	730	597	440	324	264	163	124	80.0	52.0	43.0
S512/50	NAS5120050HW0MC	2374	1954	1344	1030	846	627	460	370	223	165	108	70.0	57.0
S512/60	NAS5120060HW0MC	2920	2418	1689	1297	1052	765	565	456	268	197	128	83.0	69.0
S512/92	NAS5120092HW0MA	3272	2730	1940	1525	1263	969	740	613	369	269	183	123	103

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	2639	2296	1666	1281	1050	770	564	460	279	209	135	88.0	72.0
S506/185	NAS5060185HW0MA	3343	2959	2215	1767	1474	1112	824	664	382	271	184	124	104
S512/25	NAS5120025HW0MA	1239	1007	680	513	419	311	226	181	108	81.0	52.0	34.0	28.0
S512/38	NAS5120038HW0MC	1755	1428	971	743	605	446	328	267	165	125	80.0	52.0	43.0
S512/50	NAS5120050HW0MC	2475	2022	1378	1053	857	632	463	373	225	167	108	70.0	57.0
S512/60	NAS5120060HW0MC	3092	2520	1729	1323	1071	778	572	461	271	199	129	84.0	69.0
S512/92	NAS5120092HW0MA	3616	2969	2040	1566	1283	980	750	621	372	271	184	124	104

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

Type	Part number	3 min	5 min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	5 h	8 h	10 h
S506/130	NAS5060130HW0MC	2674	2324	1694	1300	1057	777	567	462	280	210	135	88.0	72.0
S506/185	NAS5060185HW0MA	3495	3060	2262	1800	1485	1121	828	667	384	273	185	124	104
S512/25	NAS5120025HW0MA	1266	1026	691	520	424	313	227	181	108	81.0	52.0	34.0	28.0
S512/38	NAS5120038HW0MC	1793	1453	984	750	610	450	332	269	166	125	80.0	52.0	43.0
S512/50	NAS5120050HW0MC	2554	2061	1400	1060	868	638	465	375	226	168	108	70.0	57.0
S512/60	NAS5120060HW0MC	3212	2600	1756	1340	1084	791	579	466	273	200	129	84.0	69.0
S512/92	NAS5120092HW0MA	3808	3070	2091	1600	1303	990	758	626	374	273	185	124	104

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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.

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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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