



Industrial Batteries – Network Power
Sonnenschein A700
The durable high energy and
reliable battery system.

Specifications

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- The success of Sonnenschein A700 batteries comes from the internationally superior dryfit technology
- High current discharge capability, with excellent energy storage capacity
- Maintenance-free (no topping up) during the whole service life due to the Sonnenschein dryfit technology
- Nominal capacity 21 – 280 Ah C₁₀
- Design life of 12 years and longer at 20 °C (80% remaining capacity from C₁₀)
- Case material polypropylene (PP)
- Thick grid plate construction consisting of a lead calcium
- 6 volt and 4 volt blocks
- Very low gassing due to internal gas recombination
- Shelf life up to 2 years at 20 °C without recharge due to the low self discharge rate
- Short recharging time
- Proof against deep discharge
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR clause A67)
- Completely recyclable
- Designed in accordance with IEC 60896-21/-22



More power for Network Power.



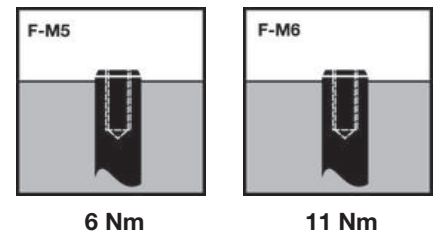
Applications

Sonnenschein A700 batteries make a completely reliable means of energy source for many applications including: telecommunications, UPS, security, emergency lighting, railways and other power supplies for safety systems.



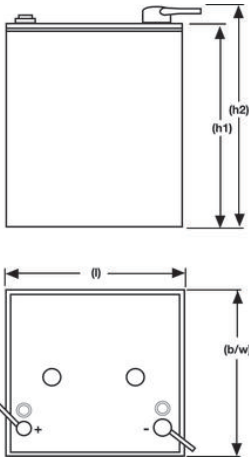
Design life in years: 12+	Nominal capacity 21.0 – 280 Ah	Block battery	Grid plate	Recyclable
Valve regulated lead-acid batteries	Proof against deep discharge	Maintenance-free (no topping-up)	Special high current performance	

Type	Part number	Type acc. to DIN 40 741 T1	Nom. voltage V	Nominal capacity C ₁₀ 1.80 Vpc 20 °C Ah	Length (l) max. mm	Width (b/w) max. mm	Height up to top of cover (h1) max. mm	Height over terminals (h2) max. mm	Installed length mm	Weight approx. kg	Internal resistance mOhm	Short circuit current A	Terminal
A704/245	NGA7040245HS0FB	4V 7 OGiV 224	4	245	250	232	296	327	260	35.5	1.70	3181	F-M6
A704/280	NGA7040280HS0FB	4V 8 OGiV 256	4	280	250	232	296	327	260	39.0	1.17	3490	F-M6
A706/21	NGA7060021HS0FA	6V 1 OGiV 18	6	21.0	115	178	241	268	125	8.50	16.8	367	F-M5
A706/42	NGA7060042HS0FA	6V 2 OGiV 36	6	42.0	115	178	241	268	125	10.1	8.50	731	F-M5
A706/63	NGA7060063HS0FB	6V 3 OGiV 54	6	63.0	198	178	241	272	208	16.3	5.80	1058	F-M6
A706/84	NGA7060084HS0FB	6V 4 OGiV 72	6	84.0	198	178	241	272	208	18.3	4.30	1409	F-M6
A706/105	NGA7060105HS0FB	6V 5 OGiV 90	6	105	282	178	241	272	292	25.3	3.60	1726	F-M6
A706/126	NGA7060126HS0FB	6V 6 OGiV 108	6	126	282	178	241	272	292	26.2	2.90	2092	F-M6
A706/140	NGA7060140HS0FB	6V 4 OGiV 128	6	140	285	232	296	327	295	36.3	3.00	2083	F-M6
A706/175	NGA7060175HS0FB	6V 5 OGiV 160	6	175	285	232	296	327	295	39.7	2.60	2383	F-M6
A706/210	NGA7060210HS0FB	6V 6 OGiV 192	6	210	285	232	296	327	295	42.9	2.20	2876	F-M6

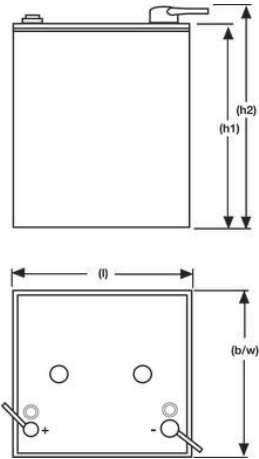
Container, approval, terminal and torque

Container: Polypropylene (PP)

Approval: Germanischer Lloyd (GL)
DIN/Gost/TÜV, Russia

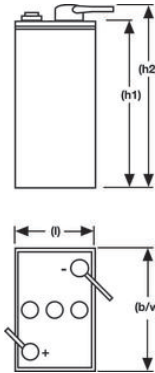
A704/245



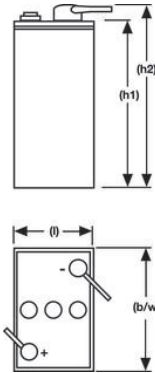
A704/280



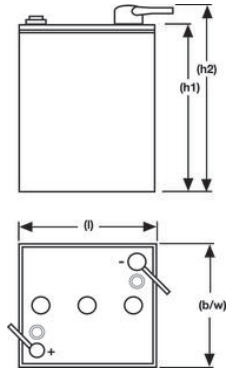
A706/21



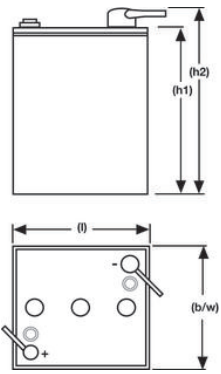
A706/42



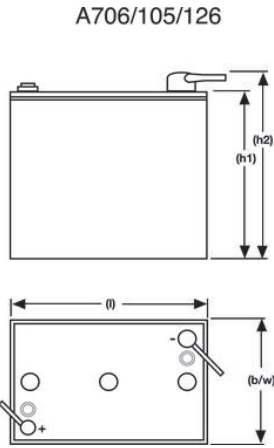
A706/63



A706/84

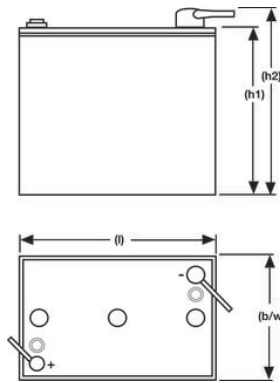


A706/105

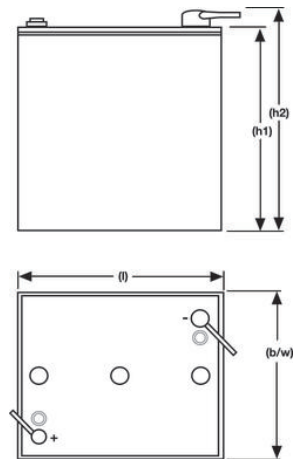


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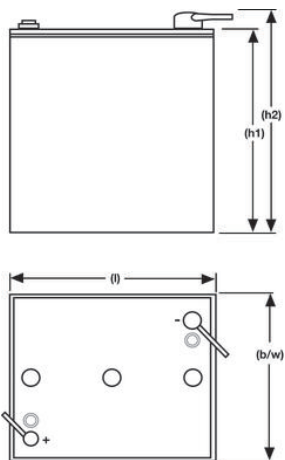
A706/126



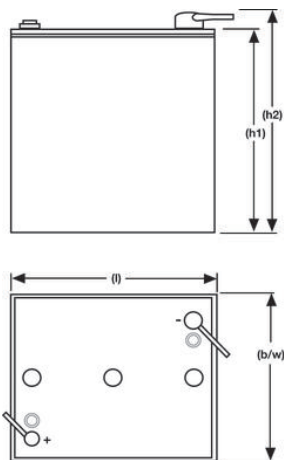
A706/140



A706/175



A706/210



Not to scale!

1.80 Vpc – Discharge in A at 20 °C												
Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
A704/245	NGA7040245HS0FB	356	332	283	252	220	143	88.3	64.9	44.8	30.4	24.5
A704/280	NGA7040280HS0FB	406	380	323	288	251	163	100	74.2	51.2	34.7	28.0
A706/21	NGA7060021HS0FA	36.3	31.3	26.4	23.1	18.9	11.5	7.30	5.50	3.70	2.60	2.10
A706/42	NGA7060042HS0FA	72.5	62.6	52.8	46.2	37.8	23.0	14.6	11.0	7.40	5.20	4.20
A706/63	NGA7060063HS0FB	108	93.9	79.2	69.3	56.7	34.5	21.9	16.5	11.1	7.70	6.30
A706/84	NGA7060084HS0FB	145	125	105	92.4	75.6	46.0	29.3	22.0	14.8	10.3	8.40
A706/105	NGA7060105HS0FB	181	156	132	115	94.5	57.5	36.6	27.6	18.5	12.9	10.5
A706/126	NGA7060126HS0FB	217	187	158	138	113	69.0	43.9	33.1	22.2	15.5	12.6
A706/140	NGA7060140HS0FB	203	190	161	144	125	81.8	50.5	37.1	25.6	17.4	14.0
A706/175	NGA7060175HS0FB	254	237	202	180	157	102	63.1	46.4	32.0	21.7	17.5
A706/210	NGA7060210HS0FB	305	285	242	216	188	122	75.7	55.7	38.4	26.0	21.0

1.77 Vpc – Discharge in A at 20 °C												
Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
A704/245	NGA7040245HS0FB	392	360	300	261	224	145	90.3	66.9	45.5	31.0	24.5
A704/280	NGA7040280HS0FB	448	411	343	299	256	166	103	76.5	51.9	35.4	28.0
A706/21	NGA7060021HS0FA	40.2	34.2	28.0	24.2	19.3	11.9	7.30	5.50	3.80	2.60	2.10
A706/42	NGA7060042HS0FA	80.4	68.4	55.9	48.5	38.6	23.7	14.6	11.0	7.50	5.20	4.20
A706/63	NGA7060063HS0FB	120	102	83.9	72.7	58.0	35.6	21.9	16.5	11.3	7.70	6.30
A706/84	NGA7060084HS0FB	160	136	111	97.0	77.3	47.4	29.3	22.0	15.1	10.3	8.40
A706/105	NGA7060105HS0FB	201	170	139	121	96.6	59.3	36.6	27.6	18.9	12.9	10.5
A706/126	NGA7060126HS0FB	241	205	167	145	115	71.2	43.9	33.1	22.6	15.5	12.6
A706/140	NGA7060140HS0FB	224	205	171	149	128	83.1	51.6	38.2	25.9	17.7	14.0
A706/175	NGA7060175HS0FB	280	257	214	187	160	103	64.5	47.8	32.4	22.1	17.5
A706/210	NGA7060210HS0FB	336	308	257	224	192	124	77.4	57.4	38.9	26.5	21.0

1.75 Vpc – Discharge in A at 20 °C												
Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
A704/245	NGA7040245HS0FB	417	378	311	268	227	147	91.6	68.3	45.8	31.4	24.5
A704/280	NGA7040280HS0FB	477	432	356	306	260	168	104	78.0	52.3	35.8	28.0
A706/21	NGA7060021HS0FA	42.8	36.1	29.0	25.0	19.6	12.1	7.30	5.50	3.80	2.60	2.10
A706/42	NGA7060042HS0FA	85.6	72.2	58.0	50.0	39.2	24.2	14.6	11.0	7.50	5.20	4.20
A706/63	NGA7060063HS0FB	128	108	87.0	75.0	58.8	36.6	21.9	16.5	11.3	7.70	6.30
A706/84	NGA7060084HS0FB	171	144	116	100	78.4	48.4	29.3	22.0	15.1	10.3	8.40
A706/105	NGA7060105HS0FB	214	180	145	125	98.0	60.5	36.6	27.6	18.9	12.9	10.5
A706/126	NGA7060126HS0FB	256	216	174	150	117	72.6	43.9	33.1	22.6	15.5	12.6
A706/140	NGA7060140HS0FB	238	216	178	153	130	84.0	52.3	39.0	26.2	17.9	14.0
A706/175	NGA7060175HS0FB	298	270	222	191	162	105	65.4	48.8	32.7	22.4	17.5
A706/210	NGA7060210HS0FB	357	324	267	230	195	126	78.5	58.5	39.2	26.9	21.0

1.70 Vpc – Discharge in A at 20 °C

Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
A704/245	NGA7040245HS0FB	466	409	340	291	240	149	91.6	68.3	45.8	31.4	24.5
A704/280	NGA7040280HS0FB	532	468	389	332	275	170	104	78.0	52.3	35.8	28.0
A706/21	NGA7060021HS0FA	48.0	39.0	31.0	26.5	20.4	12.1	7.40	5.50	3.80	2.60	2.10
A706/42	NGA7060042HS0FA	96.0	78.0	62.0	53.0	40.8	24.2	14.8	11.0	7.60	5.20	4.20
A706/63	NGA7060063HS0FB	144	117	93.0	79.5	61.2	36.6	22.2	16.5	11.4	7.70	6.30
A706/84	NGA7060084HS0FB	192	156	124	106	81.6	48.4	29.7	22.0	15.3	10.3	8.40
A706/105	NGA7060105HS0FB	240	195	155	132	102	60.5	37.1	27.6	19.1	12.9	10.5
A706/126	NGA7060126HS0FB	288	234	186	159	122	72.6	44.5	33.1	22.9	15.5	12.6
A706/140	NGA7060140HS0FB	266	234	194	166	137	85.2	52.3	39.0	26.2	17.9	14.0
A706/175	NGA7060175HS0FB	333	292	243	208	172	106	65.4	48.8	32.7	22.4	17.5
A706/210	NGA7060210HS0FB	399	351	291	249	206	127	78.5	58.5	39.2	26.9	21.0

1.65 Vpc – Discharge in A at 20 °C

Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
A704/245	NGA7040245HS0FB	508	431	353	299	243	149	91.9	68.6	45.8	31.4	24.5
A704/280	NGA7040280HS0FB	581	493	404	342	278	170	105	78.4	52.3	35.8	28.0
A706/21	NGA7060021HS0FA	52.0	41.0	32.5	26.9	20.4	12.2	7.40	5.60	3.80	2.60	2.10
A706/42	NGA7060042HS0FA	104	82.0	65.0	53.8	40.8	24.4	14.8	11.2	7.60	5.20	4.20
A706/63	NGA7060063HS0FB	156	123	97.5	80.7	61.2	36.6	22.2	16.9	11.4	7.70	6.30
A706/84	NGA7060084HS0FB	208	164	130	107	81.6	48.8	29.7	22.5	15.3	10.3	8.40
A706/105	NGA7060105HS0FB	260	205	162	134	102	61.0	37.1	28.1	19.1	12.9	10.5
A706/126	NGA7060126HS0FB	312	246	195	161	122	73.2	44.5	33.7	22.9	15.5	12.6
A706/140	NGA7060140HS0FB	290	246	202	171	139	85.3	52.5	39.2	26.2	17.9	14.0
A706/175	NGA7060175HS0FB	363	308	252	214	173	106	65.7	49.0	32.7	22.4	17.5
A706/210	NGA7060210HS0FB	436	369	303	256	208	128	78.8	58.8	39.2	26.9	21.0

1.60 Vpc – Discharge in A at 20 °C

Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
A704/245	NGA7040245HS0FB	541	444	364	303	243	149	91.9	68.6	45.8	31.4	24.5
A704/280	NGA7040280HS0FB	619	507	416	346	278	170	105	78.4	52.3	35.8	28.0
A706/21	NGA7060021HS0FA	55.0	42.5	33.2	26.9	20.5	12.2	7.40	5.60	3.80	2.60	2.10
A706/42	NGA7060042HS0FA	110	85.0	66.4	53.8	41.0	24.4	14.8	11.2	7.60	5.20	4.20
A706/63	NGA7060063HS0FB	165	127	99.6	80.7	61.5	36.6	22.2	16.9	11.4	7.70	6.30
A706/84	NGA7060084HS0FB	220	170	132	107	82.0	48.8	29.7	22.5	15.3	10.3	8.40
A706/105	NGA7060105HS0FB	275	212	166	134	102	61.0	37.1	28.1	19.1	12.9	10.5
A706/126	NGA7060126HS0FB	330	255	199	161	123	73.2	44.5	33.7	22.9	15.5	12.6
A706/140	NGA7060140HS0FB	309	253	208	173	139	85.3	52.5	39.2	26.2	17.9	14.0
A706/175	NGA7060175HS0FB	387	317	260	216	173	106	65.7	49.0	32.7	22.4	17.5
A706/210	NGA7060210HS0FB	464	380	312	260	208	128	78.8	58.8	39.2	26.9	21.0

1.80 Vpc – Discharge in W/block at 20 °C										
Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h
A704/245	NGA7040245HS0FB	1175	1034	944	855	747	512	344	254	173
A704/280	NGA7040280HS0FB	1342	1182	1079	977	854	585	393	290	198
A706/21	NGA7060021HS0FA	186	157	137	121	97.0	65.0	41.0	31.0	21.0
A706/42	NGA7060042HS0FA	372	315	274	241	195	129	82.0	62.0	42.0
A706/63	NGA7060063HS0FB	558	472	411	362	292	194	123	93.0	63.0
A706/84	NGA7060084HS0FB	744	629	548	482	389	258	164	124	84.0
A706/105	NGA7060105HS0FB	930	786	685	603	486	323	205	155	105
A706/126	NGA7060126HS0FB	1115	944	822	724	584	388	246	186	126
A706/140	NGA7060140HS0FB	1007	886	809	733	640	439	295	218	148
A706/175	NGA7060175HS0FB	1259	1108	1012	916	801	548	368	272	185
A706/210	NGA7060210HS0FB	1510	1330	1214	1099	961	658	442	327	222

1.77 Vpc – Discharge in W/block at 20 °C										
Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h
A704/245	NGA7040245HS0FB	1264	1111	1002	906	768	523	350	258	175
A704/280	NGA7040280HS0FB	1445	1270	1145	1035	878	598	400	295	200
A706/21	NGA7060021HS0FA	199	165	144	126	100	66.0	42.0	31.0	21.0
A706/42	NGA7060042HS0FA	398	331	288	252	200	131	83.0	62.0	42.0
A706/63	NGA7060063HS0FB	596	496	432	377	300	197	125	93.0	63.0
A706/84	NGA7060084HS0FB	795	661	576	503	401	263	166	124	84.0
A706/105	NGA7060105HS0FB	994	826	719	629	501	328	208	155	105
A706/126	NGA7060126HS0FB	1193	992	863	755	601	394	249	186	126
A706/140	NGA7060140HS0FB	1083	952	859	776	659	449	300	222	150
A706/175	NGA7060175HS0FB	1354	1190	1074	971	823	561	375	277	188
A706/210	NGA7060210HS0FB	1625	1428	1288	1165	988	673	450	332	225

1.75 Vpc – Discharge in W/block at 20 °C										
Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h
A704/245	NGA7040245HS0FB	1353	1187	1060	957	790	535	353	260	176
A704/280	NGA7040280HS0FB	1547	1357	1211	1094	902	611	404	297	201
A706/21	NGA7060021HS0FA	212	173	151	131	103	67.0	42.0	32.0	21.0
A706/42	NGA7060042HS0FA	423	347	302	262	206	133	84.0	64.0	42.0
A706/63	NGA7060063HS0FB	635	520	452	393	309	200	126	96.0	63.0
A706/84	NGA7060084HS0FB	847	693	603	524	412	267	168	128	84.0
A706/105	NGA7060105HS0FB	1058	866	754	655	515	334	210	160	105
A706/126	NGA7060126HS0FB	1270	1040	905	786	618	400	252	192	126
A706/140	NGA7060140HS0FB	1160	1018	908	820	677	458	303	223	151
A706/175	NGA7060175HS0FB	1450	1272	1135	1025	846	573	379	279	189
A706/210	NGA7060210HS0FB	1740	1527	1363	1230	1015	688	454	335	226

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

Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h
A704/245	NGA7040245HS0FB	1519	1313	1162	1025	825	546	358	262	176
A704/280	NGA7040280HS0FB	1736	1501	1328	1172	943	624	409	300	202
A706/21	NGA7060021HS0FA	230	189	159	137	106	68.0	43.0	32.0	22.0
A706/42	NGA7060042HS0FA	459	379	318	275	213	135	86.0	64.0	43.0
A706/63	NGA7060063HS0FB	689	568	477	412	319	203	129	96.0	65.0
A706/84	NGA7060084HS0FB	919	758	636	550	425	271	172	128	86.0
A706/105	NGA7060105HS0FB	1148	947	795	687	532	338	215	160	108
A706/126	NGA7060126HS0FB	1378	1137	954	825	638	406	258	192	129
A706/140	NGA7060140HS0FB	1302	1125	996	879	707	468	307	225	151
A706/175	NGA7060175HS0FB	1628	1407	1245	1098	884	585	383	281	189
A706/210	NGA7060210HS0FB	1954	1688	1494	1318	1060	702	460	337	227

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

Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h
A704/245	NGA7040245HS0FB	1634	1393	1226	1070	846	551	359	263	177
A704/280	NGA7040280HS0FB	1868	1592	1401	1223	967	630	410	300	203
A706/21	NGA7060021HS0FA	251	202	164	141	108	68.0	43.0	32.0	22.0
A706/42	NGA7060042HS0FA	502	403	328	282	216	136	86.0	64.0	43.0
A706/63	NGA7060063HS0FB	753	605	492	423	324	204	129	96.0	65.0
A706/84	NGA7060084HS0FB	1003	807	655	564	432	272	172	128	86.0
A706/105	NGA7060105HS0FB	1254	1008	819	705	540	340	215	160	108
A706/126	NGA7060126HS0FB	1505	1210	983	846	648	408	258	192	129
A706/140	NGA7060140HS0FB	1401	1194	1051	917	725	472	308	225	152
A706/175	NGA7060175HS0FB	1751	1492	1313	1147	906	591	385	282	190
A706/210	NGA7060210HS0FB	2101	1790	1576	1376	1087	709	462	338	228

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

Type	Part number	5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h
A704/245	NGA7040245HS0FB	1762	1476	1285	1098	858	553	360	264	177
A704/280	NGA7040280HS0FB	2014	1687	1468	1255	980	633	411	301	203
A706/21	NGA7060021HS0FA	266	210	168	143	109	68.0	43.0	32.0	22.0
A706/42	NGA7060042HS0FA	532	420	335	286	218	136	86.0	64.0	44.0
A706/63	NGA7060063HS0FB	798	630	503	429	326	205	129	96.0	66.0
A706/84	NGA7060084HS0FB	1064	840	670	571	435	273	172	128	88.0
A706/105	NGA7060105HS0FB	1329	1050	838	714	544	341	215	160	110
A706/126	NGA7060126HS0FB	1595	1260	1005	857	653	409	258	192	132
A706/140	NGA7060140HS0FB	1510	1265	1101	941	735	474	309	226	152
A706/175	NGA7060175HS0FB	1888	1582	1376	1177	919	593	386	283	190
A706/210	NGA7060210HS0FB	2265	1898	1652	1412	1103	712	463	339	228

GNB[®] INDUSTRIAL POWER



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.