

Nickel-cadmium steel cells

Technical data



SCH S - SCM S range
Cell capacities and dimensions

Cell Type	Capacity Ah	cc	kg	Terminal	Cell dimensions			Dimensions					
					Height mm	Width mm	Length mm	(H) mm	(W) mm	2 cells (L) mm	3 cells (L) mm	4 cells (L) mm	5 cells (L) mm
SCH 65 S	67	410	7.3	1 x M20	364	128	54	388	160	152	216	280	342
SCH 85 S	85	500	8.8	1 x M20	364	128	66	388	160	186	264	342	420
SCH 100 S	102	605	10.2	1 x M20	364	128	79	388	160	212	301	394	485
SCH 130 S	128	750	12.5	1 x M20	364	128	97	388	160	248	357	478	587
SCH 150 S	147	840	14.1	2 x M20	364	156	91	388	188	246	351	468	573
SCH 190 S	190	1070	18.1	2 x M20	364	156	115	388	188	294	423	564	691
SCH 210 S	211	1190	19.5	2 x M20	364	156	128	388	188	320	462		
SCH 255 S	254	1400	23.1	2 x M20	364	156	150	388	188	359	534		
SCH 280 S	280	1600	25.7	3 x M20	364	156	171	388	188	406	601		
SCH 320 S	320	1840	28.7	3 x M20	364	156	196	388	188	468	690		
SCM 32 S	32	260	3.3	1 X M10	273	80	84	285	108	204	296	388	480
SCM 45 S	45	250	3.9	1 X M10	273	80	84	285	108	204	296	388	480
SCM 59 S	59	240	4.7	1 X M10	273	80	84	285	108	204	296	388	480
SCM 83 S	83	365	7.3	1 X M20	401	128	47	424	160	148	207	266	325
SCM 101 S	101	440	8.3	1 X M20	401	128	56	424	160	154	220	284	347
SCM 118 S	118	515	8.9	1 X M20	401	128	65	424	160	172	247	322	399
SCM 145 S	145	625	10.1	1 X M20	401	156	65	424	188	174	248	330	407
SCM 189 S	189	790	12.6	1 X M20	401	156	82	424	188	208	299	398	492
SCM 211 S	211	910	13.9	1 X M20	401	156	94	424	188	242	348	466	572
SCM 232 S	232	990	16.2	2 X M20	401	156	102	424	188	260	375	502	617
SCM 276 S	276	1180	18.6	2 X M20	401	156	121	424	188	300	435		
SCM 319 S	319	1350	21.1	2 X M20	401	156	138	424	188	334	484		
SCM 378 S	378	1600	24.5	2 X M20	401	156	163	424	188	378	563		
SCM 435 S	435	1900	27.7	3 X M20	401	156	193	424	188	440	657		



SCM S Cells

Performance after long term floating with constant voltage charging

Final voltage 1.00 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.25	4.03	6.40	10.3	14.9	17.9	23.1	27.8	35.2	44.1	49.8	56.8	67.6	102	108	118	138	169
SCM 45 S	45	4.57	5.67	9.00	14.5	21.0	25.2	32.5	39.1	49.5	62.0	70.0	79.9	95.1	143	152	166	194	238
SCM 59 S	59	5.99	7.43	11.8	19.1	27.4	32.9	42.6	51.2	64.8	81.3	91.8	105	125	189	198	217	255	312
SCM 83 S	83	8.42	10.5	16.6	26.3	37.4	44.8	58.5	71.1	85.8	102	113	124	151	199	219	239	272	299
SCM 101 S	101	10.3	12.7	20.2	32.0	45.5	54.5	71.2	86.5	104	124	137	150	184	242	267	291	331	364
SCM 118 S	118	12.0	14.9	23.6	37.4	53.1	63.6	83.2	101	122	145	161	176	215	283	312	340	387	425
SCM 145 S	145	14.7	18.3	29.0	46.9	68.2	81.8	110	129	155	185	202	223	264	336	371	394	435	476
SCM 189 S	189	19.2	23.8	37.8	61.1	88.8	107	143	168	201	242	263	290	345	438	484	514	567	620
SCM 211 S	211	21.4	26.6	42.2	68.2	99.2	119	160	188	225	270	294	324	385	490	540	574	633	692
SCM 232 S	232	23.5	29.2	46.4	75.0	109	131	176	206	247	297	323	356	423	538	594	631	696	761
SCM 276 S	276	28.0	34.8	55.2	89.2	130	156	209	246	294	353	385	424	503	640	707	751	828	905
SCM 319 S	319	32.4	40.2	63.8	103	150	180	241	284	340	408	444	490	582	740	817	868	957	1046
SCM 378 S	378	38.4	47.6	75.6	122	178	213	286	337	403	483	526	581	690	877	968	1029	1134	1239
SCM 435 S	435	44.2	54.8	87.0	140	205	245	329	387	464	556	605	668	794	1009	1114	1184	1305	1426

voltage 1.05 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.22	4.00	6.34	10.2	13.2	15.8	21.0	24.9	30.5	35.8	39.9	45.2	54.7	79.2	88.8	96.0	113	137
SCM 45 S	45	4.53	5.63	8.92	14.3	18.6	22.2	29.5	35.0	42.9	50.3	56.1	63.6	76.9	111	125	135	159	193
SCM 59 S	59	5.94	7.38	11.7	18.9	24.4	29.1	38.7	45.9	56.1	65.9	73.5	83.4	101	146	164	177	208	252
SCM 83 S	83	8.36	10.4	16.3	26.0	32.9	39.5	51.7	61.1	73.8	85.2	93.4	106	120	162	181	193	218	243
SCM 101 S	101	10.2	12.6	19.8	31.6	40.0	48.1	62.9	74.3	89.8	104	114	129	145	197	220	235	265	295
SCM 118 S	118	11.9	14.8	23.1	37.0	46.7	56.2	73.5	86.8	105	121	133	151	170	230	257	274	310	345
SCM 145 S	145	14.6	18.1	28.7	46.9	60.7	73.1	97.5	116	138	155	172	185	209	272	294	315	348	381
SCM 189 S	189	19.0	23.6	37.4	61.1	79.1	95.3	127	151	180	203	224	241	272	354	383	411	454	496
SCM 211 S	211	21.2	26.4	41.8	68.2	88.3	106	142	169	201	226	250	269	304	396	427	459	506	554
SCM 232 S	232	23.4	29.0	45.9	75.0	97.1	117	156	186	221	249	275	296	334	435	470	505	557	609
SCM 276 S	276	27.8	34.5	54.6	89.2	116	139	186	221	263	296	327	352	397	518	559	600	662	725
SCM 319 S	319	32.1	39.9	63.2	103	134	161	214	255	304	342	378	407	459	598	646	694	766	837
SCM 378 S	378	38.0	47.3	74.9	122	159	191	254	302	360	405	448	482	544	709	765	822	908	992
SCM 435 S	435	43.8	54.4	86.2	140	183	220	292	348	415	466	515	555	626	815	881	946	1045	1141

voltage 1.10 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.17	3.94	6.21	9.23	11.8	14.0	17.5	20.0	24.6	28.7	31.3	35.4	40.9	63.6	70.4	77.2	90.9	109
SCM 45 S	45	4.46	5.54	8.73	13.0	16.6	19.7	24.6	28.1	34.6	40.4	44.0	49.8	57.5	89.4	99.0	109	128	153
SCM 59 S	59	5.85	7.26	11.4	17.0	21.8	25.8	32.3	36.8	45.4	53.0	57.8	65.3	75.4	117	130	142	168	201
SCM 83 S	83	8.23	10.2	16.1	23.4	29.6	35.0	42.2	48.5	56.5	67.3	74.1	84.9	99.0	124	141	153	177	194
SCM 101 S	101	10.0	12.4	19.6	28.5	36.1	42.6	51.3	59.0	68.8	81.8	90.2	103	120	151	172	186	215	237
SCM 118 S	118	11.7	14.5	22.9	33.3	42.1	49.7	60.0	68.9	80.3	95.6	105	121	141	176	201	218	251	276
SCM 145 S	145	14.4	17.8	28.4	42.7	54.8	64.2	78.2	87.6	103	121	134	148	173	216	237	257	278	309
SCM 189 S	189	18.7	23.2	37.0	55.7	71.4	83.7	102	114	134	157	174	193	225	282	309	335	362	403
SCM 211 S	211	20.9	26.0	41.4	62.1	79.8	93.4	114	127	150	176	194	216	252	315	345	375	404	449
SCM 232 S	232	23.0	28.5	45.5	68.3	87.7	103	125	140	165	193	214	237	277	346	379	412	445	494
SCM 276 S	276	27.4	33.9	54.1	81.3	104	122	149	167	196	230	254	282	329	412	451	490	529	588
SCM 319 S	319	31.6	39.2	62.5	93.9	121	141	172	193	227	265	294	326	381	476	521	566	612	679
SCM 378 S	378	37.4	46.5	74.1	111	143	167	204	229	269	314	348	386	451	564	617	671	725	805
SCM 435 S	435	43.1	53.5	85.2	128	165	192	235	263	310	361	401	445	520	649	710	772	835	926

voltage 1.14 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.09	3.84	6.02	7.98	9.86	11.7	14.1	15.6	18.1	20.9	23.2	27.0	33.4	51.5	57.9	62.2	72.9	90.0
SCM 45 S	45	4.35	5.40	8.47	11.2	13.9	16.5	19.8	21.9	25.5	29.4	32.6	38.0	47.0	72.4	81.4	87.5	103	127
SCM 59 S	59	5.71	7.08	11.1	14.7	18.2	21.5	25.9	28.8	33.4	38.5	42.7	49.8	61.7	94.9	107	115	134	166
SCM 83 S	83	8.03	9.96	15.6	20.2	24.6	29.1	34.7	38.2	43.5	49.1	53.4	60.1	80.1	100	111	122	139	156
SCM 101 S	101	9.77	12.1	19.0	24.6	29.9	35.4	42.2	46.5	53.0	59.8	65.0	73.1	97.4	122	135	149	169	189
SCM 118 S	118	11.4	14.2	22.2	28.8	35.0	41.3	49.3	54.4	61.9	69.8	75.9	85.4	114	142	158	174	198	221
SCM 145 S	145	14.0	17.4	27.8	36.6	44.7	52.9	62.6	69.5	78.0	88.7	97.2	111	140	175	194	204	223	243
SCM 189 S	189	18.3	22.7	36.3	47.7	58.2	69.0	81.6	90.6	102	116	127	144	182	228	253	266	291	317
SCM 211 S	211	20.4	25.3	40.5	53.2	65.0	77.0	91.2	101	114	129	141	161	204	254	283	297	325	353
SCM 232 S	232	22.4	27.8	44.5	58.5	71.5	84.7	100	111	125	142	155	177	224	280	311	326	358	389
SCM 276 S	276	26.7	33.1	53.0	69.6	85.0	101	119	132	149	169	185	211	266	333	370	388	425	462
SCM 319 S	319	30.8	38.3	61.2	80.4	98.3	116	138	153	172	195	214	244	308	385	427	449	492	534
SCM 378 S	378	36.5	45.4	72.5	95.3	116	137	164	181	204	231	254	289	365	456	506	532	583	633
SCM 435 S	435	42.0	52.2	83.5	110	134	158	188	209	235	266	292	333	420	525	582	612	671	728



SCH S Cells

Performance after long term floating with constant voltage charging

Final voltage 1.00 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	8.38	13.4	21.7	31.5	41.1	60.3	78.6	114	153	174	198	226	321	355	388	428	478
SCH 85 S	85	10.6	17.0	27.5	40.0	52.1	76.5	99.7	145	194	221	251	287	407	450	493	543	607
SCH 102 S	102	12.8	20.4	33.0	47.9	62.6	91.8	120	173	233	265	302	345	488	540	591	651	728
SCH 128 S	128	16.0	25.6	41.4	60.2	78.5	115	150	218	292	333	379	433	613	677	742	817	914
SCH 147 S	147	18.4	29.4	47.5	69.1	89.2	129	167	235	313	354	402	497	642	704	778	877	988
SCH 190 S	190	23.8	38.0	61.4	89.3	115	167	215	304	405	457	519	642	830	910	1005	1133	1277
SCH 211 S	211	26.4	42.2	68.2	99.2	128	186	239	338	449	508	577	713	922	1010	1117	1258	1418
SCH 254 S	254	31.8	50.8	82.1	119	154	224	288	406	541	611	694	858	1109	1216	1344	1515	1707
SCH 280 S	280	35.1	56.0	90.5	131	170	247	317	448	596	674	765	946	1223	1340	1482	1670	1882
SCH 320 S	320	40.1	64.0	103	150	194	282	363	511	682	770	874	1081	1397	1532	1693	1909	2151

Final voltage 1.05 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	8.31	13.3	21.4	31.5	41.1	59.6	75.9	106	130	145	159	187	266	298	320	358	402
SCH 85 S	85	10.5	16.8	27.2	40.0	52.1	75.7	96.3	134	165	185	202	237	337	379	406	454	509
SCH 102 S	102	12.6	20.2	32.6	47.9	62.6	90.8	116	161	198	221	242	284	405	454	487	545	611
SCH 128 S	128	15.9	25.3	41.0	60.2	78.5	114	145	202	248	278	304	357	508	570	612	684	767
SCH 147 S	147	18.2	29.1	47.0	68.4	88.2	128	161	218	264	292	326	381	536	595	643	726	833
SCH 190 S	190	23.6	37.6	60.8	88.4	114	165	208	281	341	378	421	492	693	770	831	939	1077
SCH 211 S	211	26.2	41.8	67.5	98.1	127	184	231	312	379	419	468	546	769	855	923	1043	1196
SCH 254 S	254	31.5	50.3	81.3	118	152	221	278	376	456	505	563	658	926	1029	1111	1255	1440
SCH 280 S	280	34.7	55.4	89.6	130	168	244	306	414	503	557	621	725	1021	1134	1225	1383	1587
SCH 320 S	320	39.7	63.4	102	149	191	278	350	474	574	636	709	829	1167	1296	1400	1581	1814

Final voltage 1.1 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	8.11	13.0	21.4	30.8	40.2	57.0	68.3	83.8	97.9	109	120	136	214	234	260	285	316
SCH 85 S	85	10.3	16.5	27.2	39.1	51.0	72.4	86.6	106	124	139	153	173	271	297	329	362	401
SCH 102 S	102	12.3	19.8	32.6	46.9	61.2	86.8	104	128	149	166	183	207	326	357	395	434	481
SCH 128 S	128	15.5	24.8	41.0	58.9	76.8	109	130	160	187	209	230	260	409	447	496	545	603
SCH 147 S	147	17.8	29.1	46.6	67.6	86.2	119	142	173	196	215	236	272	413	469	514	581	681
SCH 190 S	190	23.0	37.6	60.2	87.4	111	154	184	224	253	278	305	351	534	606	664	751	881
SCH 211 S	211	25.5	41.8	66.8	97.1	124	171	204	248	281	308	338	390	593	674	738	834	978
SCH 254 S	254	30.7	50.3	80.4	117	149	206	246	299	338	371	407	469	714	811	888	1004	1178
SCH 280 S	280	33.8	55.4	88.6	129	164	227	271	330	373	409	449	517	787	894	979	1107	1299
SCH 320 S	320	38.7	63.4	101	147	188	260	310	377	426	467	513	591	900	1022	1119	1265	1484

Final voltage 1.14 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	7.84	13.0	21.0	29.8	37.5	47.9	54.4	66.1	76.5	82.6	90.5	110	166	190	209	228	252
SCH 85 S	85	9.95	16.5	26.6	37.8	47.6	60.7	69.0	83.8	97.1	105	115	140	211	241	266	290	320
SCH 102 S	102	11.9	19.8	32.0	45.4	57.1	72.9	82.8	101	116	126	138	167	253	290	319	348	384
SCH 128 S	128	15.0	24.8	40.1	57.0	71.7	91.4	104	126	146	158	173	210	318	364	400	436	482
SCH 147 S	147	17.2	28.8	45.1	63.9	79.4	98.1	111	132	154	167	185	203	334	386	407	459	553
SCH 190 S	190	22.2	37.2	58.3	82.7	103	127	143	171	199	216	239	263	432	499	526	594	715
SCH 211 S	211	24.7	41.4	64.7	91.8	114	141	159	190	220	240	266	292	479	554	584	659	794
SCH 254 S	254	29.7	49.8	77.9	110	137	170	191	229	265	289	320	351	577	667	703	793	956
SCH 280 S	280	32.7	54.9	85.9	121	151	187	211	252	292	319	353	387	636	735	775	874	1054
SCH 320 S	320	37.4	62.7	98.1	139	173	214	241	289	334	364	403	442	727	840	886	999	1204

SCM S Cells

Performance fully charged with constant current charging to IEC 60623 standard

Final voltage 1.00 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.25	4.03	6.40	10.3	14.9	19.2	26.6	32.9	42.9	53.8	61.4	71.0	84.5	128	134	147	173	211
SCM 45 S	45	4.57	5.67	9.00	14.5	21.0	27.0	37.4	46.3	60.3	75.7	86.3	99.8	119	180	188	207	243	297
SCM 59 S	59	5.99	7.43	11.8	19.1	27.4	35.4	49.0	60.6	79.1	99.1	113	131	156	236	248	271	319	389
SCM 83 S	83	8.42	10.5	16.6	26.3	37.4	48.1	67.2	84.1	105	125	139	154	189	249	274	299	340	374
SCM 101 S	101	10.3	12.7	20.2	32.0	45.5	58.6	81.8	102	127	152	170	188	230	303	333	364	414	455
SCM 118 S	118	12.0	14.9	23.6	37.4	53.1	68.4	95.6	120	149	177	198	219	269	354	389	425	484	531
SCM 145 S	145	14.7	18.3	29.0	46.9	68.2	88.0	126	153	189	226	249	278	331	421	464	493	544	595
SCM 189 S	189	19.2	23.8	37.8	61.1	88.8	115	164	199	246	295	325	363	431	548	605	643	709	775
SCM 211 S	211	21.4	26.6	42.2	68.2	99.2	128	184	222	274	329	363	405	481	612	675	717	791	865
SCM 232 S	232	23.5	29.2	46.4	75.0	109	141	202	244	302	362	399	445	529	673	742	789	870	951
SCM 276 S	276	28.0	34.8	55.2	89.2	130	167	240	291	359	431	475	530	629	800	883	938	1035	1132
SCM 319 S	319	32.4	40.2	63.8	103	150	194	278	336	415	498	549	612	727	925	1021	1085	1196	1308
SCM 378 S	378	38.4	47.6	75.6	122	178	230	329	398	492	590	651	725	861	1096	1210	1286	1417	1550
SCM 435 S	435	44.2	54.8	87.0	140	205	265	379	458	566	679	749	835	991	1261	1392	1480	1631	1784

Final voltage 1.05 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.22	4.00	6.34	10.2	14.7	18.6	25.6	31.1	39.0	47.0	52.5	59.5	73.0	106	118	128	150	182
SCM 45 S	45	4.53	5.63	8.92	14.3	20.7	26.2	36.0	43.7	54.8	66.1	73.8	83.7	103	149	166	180	211	256
SCM 59 S	59	5.94	7.38	11.7	18.9	27.1	34.2	47.2	57.4	72.0	86.7	96.8	110	135	195	218	236	277	336
SCM 83 S	83	8.36	10.4	16.3	26.0	36.5	46.5	63.1	76.4	94.6	112	123	139	159	216	241	257	291	324
SCM 101 S	101	10.2	12.6	19.8	31.6	44.4	56.6	76.8	92.9	115	136	149	170	194	263	293	313	354	394
SCM 118 S	118	11.9	14.8	23.1	37.0	51.9	66.1	89.7	109	135	159	175	198	227	307	342	366	413	460
SCM 145 S	145	14.6	18.1	28.7	46.9	67.4	86.0	119	145	177	204	226	244	278	363	392	421	464	508
SCM 189 S	189	19.0	23.6	37.4	61.1	87.9	112	155	189	231	266	295	318	363	473	510	548	605	662
SCM 211 S	211	21.2	26.4	41.8	68.2	98.1	125	173	211	257	298	329	354	405	528	570	612	675	739
SCM 232 S	232	23.4	29.0	45.9	75.0	108	138	190	232	283	327	362	390	445	580	626	673	742	812
SCM 276 S	276	27.8	34.5	54.6	89.2	128	164	226	276	337	389	431	464	530	690	745	800	883	966
SCM 319 S	319	32.1	39.9	63.2	103	148	189	262	319	389	450	498	536	612	798	861	925	1021	1117
SCM 378 S	378	38.0	47.3	74.9	122	175	224	310	378	461	533	590	635	725	946	1020	1096	1210	1324
SCM 435 S	435	43.8	54.4	86.2	140	202	258	357	435	530	614	679	731	835	1088	1174	1261	1392	1523

Final voltage 1.10 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.17	3.94	6.21	9.92	14.1	17.5	22.7	26.5	33.3	39.4	43.5	49.9	57.6	89.6	99.2	109	128	154
SCM 45 S	45	4.46	5.54	8.73	14.0	19.8	24.6	31.9	37.3	46.8	55.4	61.2	70.2	81.0	126	140	153	180	217
SCM 59 S	59	5.85	7.26	11.4	18.3	26.0	32.3	41.9	48.8	61.4	72.6	80.2	92.0	106	165	183	201	236	283
SCM 83 S	83	8.23	10.2	16.1	25.2	35.3	43.7	54.8	64.2	76.4	92.1	103	120	139	174	199	216	249	274
SCM 101 S	101	10.0	12.4	19.6	30.6	42.9	53.2	66.7	78.1	92.9	112	125	145	170	212	242	263	303	333
SCM 118 S	118	11.7	14.5	22.9	35.8	50.2	62.1	77.9	91.3	109	131	146	170	198	248	283	307	354	389
SCM 145 S	145	14.4	17.8	28.4	45.9	65.3	80.2	102	116	139	165	186	209	244	305	334	363	392	435
SCM 189 S	189	18.7	23.2	37.0	59.9	85.1	105	132	151	181	215	242	272	318	397	435	473	510	567
SCM 211 S	211	20.9	26.0	41.4	66.8	95.0	117	148	169	203	241	270	304	354	443	485	528	570	633
SCM 232 S	232	23.0	28.5	45.5	73.5	104	128	162	186	223	264	297	334	390	487	534	580	626	696
SCM 276 S	276	27.4	33.9	54.1	87.4	124	153	193	221	265	315	353	397	464	580	635	690	745	828
SCM 319 S	319	31.6	39.2	62.5	101	144	177	223	255	306	364	408	459	536	670	734	798	861	957
SCM 378 S	378	37.4	46.5	74.1	120	171	210	264	302	363	431	483	544	635	794	870	946	1020	1134
SCM 435 S	435	43.1	53.5	85.2	138	196	241	304	348	417	496	556	626	731	914	1001	1088	1174	1305

Final voltage 1.14 V

Batt. Type	Capacity	10 h	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCM 32 S	32	3.09	3.84	6.02	9.39	12.8	15.6	19.5	22.2	26.2	30.7	34.6	40.3	49.9	76.8	86.4	92.8	109	134
SCM 45 S	45	4.35	5.40	8.47	13.2	18.0	21.9	27.5	31.2	36.9	43.2	48.6	56.7	70.2	108	122	131	153	189
SCM 59 S	59	5.71	7.08	11.1	17.3	23.6	28.7	36.0	40.9	48.4	56.6	63.7	74.3	92.0	142	159	171	201	248
SCM 83 S	83	8.03	9.96	15.6	23.8	32.0	38.7	48.1	54.2	63.1	72.2	79.7	89.6	120	149	166	183	208	232
SCM 101 S	101	9.77	12.1	19.0	29.0	38.9	47.1	58.6	66.0	76.8	87.9	97.0	109	145	182	202	222	253	283
SCM 118 S	118	11.4	14.2	22.2	33.8	45.4	55.1	68.4	77.1	89.7	103	113	127	170	212	236	260	295	330
SCM 145 S	145	14.0	17.4	27.8	43.0	58.0	70.6	87.0	98.6	113	131	145	165	209	261	290	305	334	363
SCM 189 S	189	18.3	22.7	36.3	56.1	75.6	92.0	113	129	147	170	189	215	272	340	378	397	435	473
SCM 211 S	211	20.4	25.3	40.5	62.6	84.4	103	127	143	165	190	211	241	304	380	422	443	485	528
SCM 232 S	232	22.4	27.8	44.5	68.8	92.8	113	139	158	181	209	232	264	334	418	464	487	534	580
SCM 276 S	276	26.7	33.1	53.0	81.9	110	134	166	188	215	248	276	315	397	497	552	580	635	690
SCM 319 S	319	30.9	38.3	61.3	94.6	128	155	191	217	249	287	319	364	459	574	638	670	734	798
SCM 378 S	378	36.6	45.4	72.6	112	151	184	227	257	295	340	378	431	544	680	756	794	869	945
SCM 435 S	435	42.1	52.2	83.5	129	174	212	261	296	339	392	435	496	626	783	870	914	1001	1088

SCH S Cells

Performance fully charged with constant current charging to IEC 60623 standard

Final voltage 1.00 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	8.38	13.4	21.7	31.5	41.1	60.3	78.6	114	153	180	213	257	382	422	462	509	570
SCH 85 S	85	10.6	17.0	27.5	40.0	52.1	76.5	99.7	145	194	228	270	326	485	536	587	646	723
SCH 102 S	102	12.8	20.4	33.0	47.9	62.6	91.8	120	173	233	273	324	392	581	643	704	775	867
SCH 128 S	128	16.0	25.6	41.4	60.2	78.5	115	150	218	292	343	407	492	730	806	883	973	1088
SCH 147 S	147	18.4	29.4	47.5	69.1	89.2	129	167	235	313	365	432	564	764	838	926	1044	1176
SCH 190 S	190	23.8	38.0	61.4	89.3	115	167	215	304	405	471	559	730	988	1083	1197	1349	1520
SCH 211 S	211	26.4	42.2	68.2	99.2	128	186	239	338	449	523	620	810	1097	1203	1329	1498	1688
SCH 254 S	254	31.8	50.8	82.1	119	154	224	288	406	541	630	747	975	1321	1448	1600	1803	2032
SCH 280 S	280	35.1	56.0	90.5	131	170	247	317	448	596	694	823	1075	1456	1596	1764	1988	2240
SCH 320 S	320	40.1	64.0	103	150	194	282	363	511	682	794	941	1228	1664	1824	2016	2271	2560

Final voltage 1.05 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	8.31	13.3	21.4	31.5	41.1	59.6	75.9	106	137	158	181	225	328	369	395	442	496
SCH 85 S	85	10.5	16.8	27.2	40.0	52.1	75.7	96.3	134	173	201	230	286	417	468	502	561	629
SCH 102 S	102	12.6	20.2	32.6	47.9	62.6	90.8	116	161	208	241	275	343	500	561	602	673	755
SCH 128 S	128	15.9	25.3	41.0	60.2	78.5	114	145	202	261	302	346	430	627	704	755	845	947
SCH 147 S	147	18.2	29.1	47.0	68.4	88.2	128	161	218	278	318	370	459	662	735	794	897	1029
SCH 190 S	190	23.6	37.6	60.8	88.4	114	165	208	281	359	410	479	593	855	950	1026	1159	1330
SCH 211 S	211	26.2	41.8	67.5	98.1	127	184	231	312	399	456	532	658	950	1055	1139	1287	1477
SCH 254 S	254	31.5	50.3	81.3	118	152	221	278	376	480	549	640	792	1143	1270	1372	1549	1778
SCH 280 S	280	34.7	55.4	89.6	130	168	244	306	414	529	605	706	873	1260	1400	1512	1708	1960
SCH 320 S	320	39.7	63.4	102	149	191	278	350	474	605	692	806	998	1440	1600	1729	1951	2240

Final voltage 1.10 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	8.11	13.0	21.4	30.8	40.2	57.6	71.5	91.1	113	129	149	177	281	308	342	375	415
SCH 85 S	85	10.3	16.5	27.2	39.1	51.0	73.1	90.7	116	143	163	189	224	357	391	434	476	527
SCH 102 S	102	12.3	19.8	32.6	46.9	61.2	87.7	109	139	171	196	226	269	428	469	520	571	632
SCH 128 S	128	15.5	24.8	41.0	58.9	76.8	110	137	174	215	246	284	338	538	589	653	717	794
SCH 147 S	147	17.8	29.1	46.6	67.6	86.2	121	149	188	225	253	291	353	544	617	676	764	897
SCH 190 S	190	23.0	37.6	60.2	87.4	111	156	193	243	291	327	376	456	703	798	874	988	1159
SCH 211 S	211	25.5	41.8	66.8	97.1	124	173	214	270	323	363	418	506	781	886	971	1097	1287
SCH 254 S	254	30.7	50.3	80.4	117	149	208	257	325	389	437	503	610	940	1067	1168	1321	1549
SCH 280 S	280	33.8	55.4	88.6	129	164	229	283	358	429	482	554	672	1036	1176	1288	1456	1708
SCH 320 S	320	38.7	63.4	101	147	188	262	324	409	490	551	634	769	1184	1344	1471	1664	1951

Final voltage 1.14 V

Batt. Type	Capacity	8 h	5 h	3 h	2 h	1,5 h	1 h	45 min	30 min	20 min	15 min	10 min	5 min	1 min	30 sec	15 sec	5 sec	1 sec
SCH 67 S	67	7.84	13.0	21.0	29.8	37.5	50.9	60.7	77.7	94.5	105	121	153	235	268	295	322	355
SCH 85 S	85	9.95	16.5	26.6	37.8	47.6	64.6	77.1	98.6	120	133	153	194	298	340	374	408	451
SCH 102 S	102	11.9	19.8	32.0	45.4	57.1	77.5	92.5	118	144	159	184	233	357	408	449	490	541
SCH 128 S	128	15.0	24.8	40.1	57.0	71.7	97.3	116	148	180	200	230	292	448	512	563	614	678
SCH 147 S	147	17.2	28.8	45.1	63.9	79.4	104	123	156	190	212	247	282	470	544	573	647	779
SCH 190 S	190	22.2	37.2	58.3	82.7	103	135	160	201	245	274	319	365	608	703	741	836	1007
SCH 211 S	211	24.7	41.4	64.7	91.8	114	150	177	224	272	304	354	405	675	781	823	928	1118
SCH 254 S	254	29.7	49.8	77.9	110	137	180	213	269	328	366	427	488	813	940	991	1118	1346
SCH 280 S	280	32.7	54.9	85.9	121	151	198	235	297	362	403	471	538	896	1036	1092	1232	1484
SCH 320 S	320	37.4	62.7	98.1	139	173	227	268	339	413	461	538	615	1024	1184	1249	1409	1696



Cell performance H range for engine starting applications

Available amperes for fully charged cells at +20°C ± 5°C

Final voltage 0.65 V		Seconds					
Batt. Type	Capacity	90	60	30	15	5	1
SCH 67 S	67	710	750	804	871	965	1085
SCH 85 S	85	901	952	1020	1105	1224	1377
SCH 102 S	102	1081	1142	1224	1326	1469	1652
SCH 128 S	128	1357	1434	1536	1664	1843	2074
SCH 147 S	147	1411	1499	1617	1793	1999	2205
SCH 190 S	190	1824	1938	2090	2318	2584	2850
SCH 211 S	211	2026	2152	2321	2574	2870	3165
SCH 254 S	254	2438	2591	2794	3099	3454	3810
SCH 280 S	280	2688	2856	3080	3416	3808	4200
SCH 320 S	320	3072	3264	3520	3904	4352	4800

Final voltage 0.85 V		Seconds					
Batt. Type	Capacity	90	60	30	15	5	1
SCH 67 S	67	509	536	590	630	697	791
SCH 85 S	85	646	680	748	799	884	1003
SCH 102 S	102	775	816	898	959	1061	1204
SCH 128 S	128	973	1024	1126	1203	1331	1510
SCH 147 S	147	1000	1088	1176	1294	1441	1617
SCH 190 S	190	1292	1406	1520	1672	1862	2090
SCH 211 S	211	1435	1561	1688	1857	2068	2321
SCH 254 S	254	1727	1880	2032	2235	2489	2794
SCH 280 S	280	1904	2072	2240	2464	2744	3080
SCH 320 S	320	2176	2368	2560	2816	3136	3520

