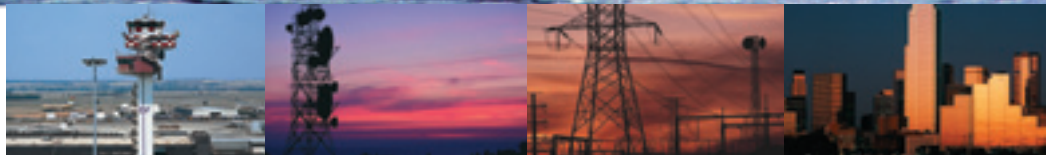


Ultima SLM Ni-Cd battery

Performance with ultra low maintenance



saft

Soft Nife Ultima Ni-Cd battery

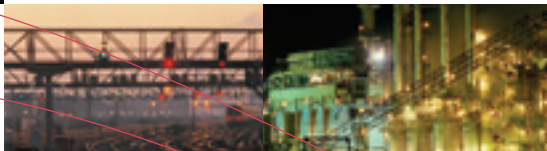
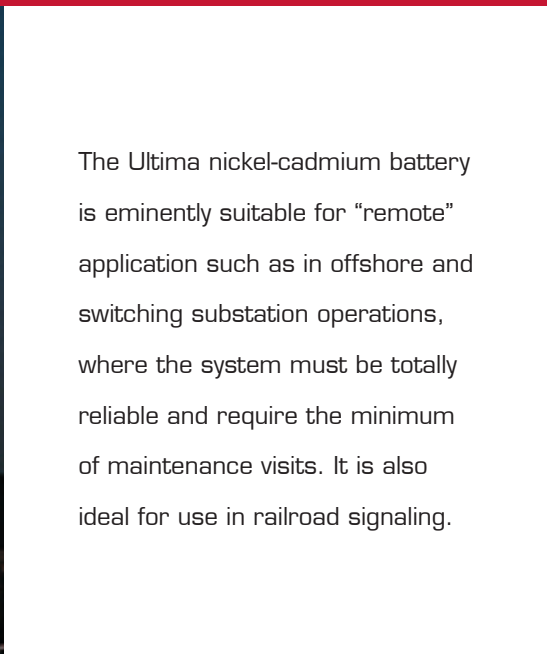
Ultra low maintenance

Developed in line with long proven nickel-cadmium technology, Ultima is an exceptionally reliable recombination pocket plate battery incorporating special technical features.

Delivering long life and requiring minimal maintenance, there is no better solution for installations where the risk of failure is unacceptable, as in

- UPS systems
- emergency lighting
- process control
- telecommunications.

The Ultima nickel-cadmium battery is eminently suitable for "remote" application such as in offshore and switching substation operations, where the system must be totally reliable and require the minimum of maintenance visits. It is also ideal for use in railroad signaling.



Ultimate safety without compromise

No water filling

No water filling is necessary during the Ultima 20-year service life because of the controlled recombination and the valve regulated venting system (topping up is possible if required).

Valve regulated

Controlled recombination is made possible through a specific cell design and low pressure flame arresting vent. The risk of thermal runaway is eliminated by the use of free electrolyte and a recombination level of 85% to 95%, depending on floating voltage – a major advantage over VRLA batteries where starved electrolyte is often the cause of failure.

The benefits of Ni-Cd

Ni-Cd pocket plate technology eliminates all risk of sudden death during the battery's exceptionally long service life.

Ultima is resistant to electrical and physical abuse.

With fast recharging and extended storage, the unit is not only simple to install but is also environmentally safe.

Performance in temperature extremes

Ultima operates with total reliability over a wide temperature range: 0°C to +40°C (+32°F to +104°F) and exceptionally from -50°C to +70°C (-58°F to +158°F).

Designed to be durable

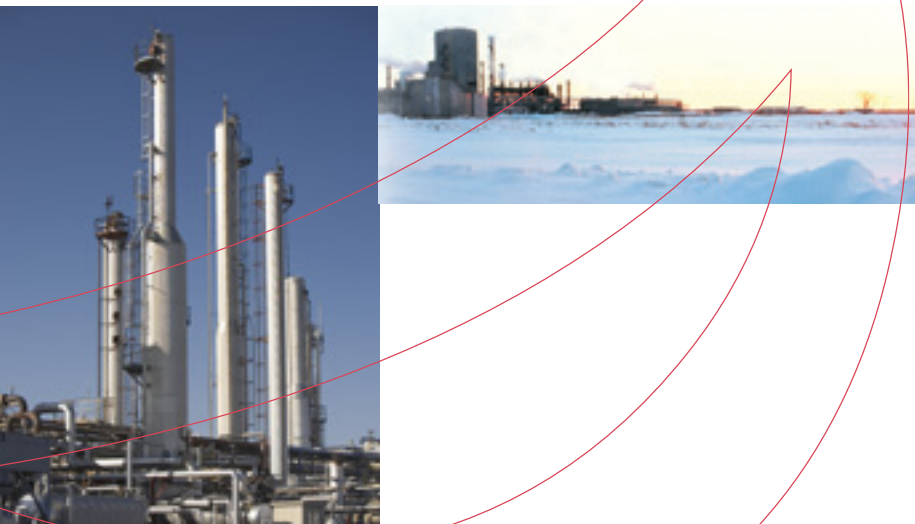
Ultima's tough cell container cradles the battery's positive nickel hydroxide and negative cadmium hydroxide plates, and alkaline electrolyte. Optimum performance is delivered without compromising structural integrity. These active materials are contained in pockets formed from double perforated steel strips. After being mechanically linked, cut to size, compressed to final plate dimensions and welded to a current carrying bus bar assembly, the heart of the nickel-cadmium cell is formed.

Quality built, quality tested

Ultima is manufactured in Sweden at Oskarshamn, one of Saft's many internationally accredited ISO 9001 sites.

Highest quality materials and rigorous quality checking procedures ensure all relevant international standards are met including IEC 60623 and 62259.

Ultima has been developed in line with the safety requirements of EN 50272-2, and components used (such as insulated cable connectors and end lug covers) are defined to ensure high protection against electric shocks (IP2 level).



Physical properties and block configurations

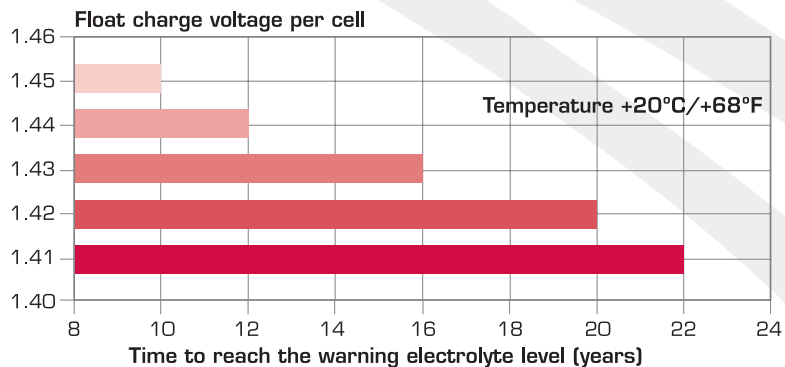
Flexibility of charging

Charging may be quickly and simply carried out by either double or single level methods

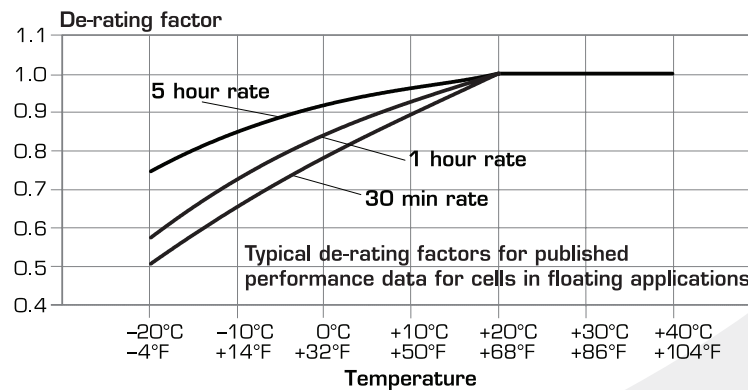
- for two level charge:
 - float level: 1.42 ± 0.01 V/cell
 - high level: 1.45 ± 0.01 V/cell
- for single level charge:
 - 1.42 ± 0.01 V/cell

Alternatively, a float charge of 1.42 ± 0.01 V/cell brings Ultima to up to 80% capacity after only 16 hours from a fully discharged state.

Effect of charging voltage on water consumption

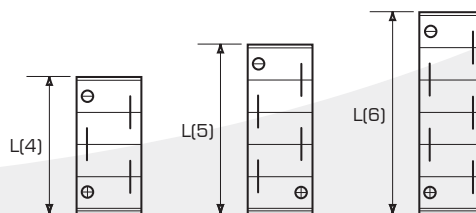


Typical de-rating factors versus temperature for cell final voltage between 1.00 volts and 1.10 volts



Block configuration

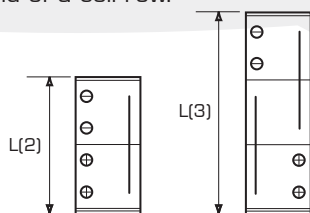
For serial connection of blocks on racks or on shelves, always use blocks with an even number of cells. This gives short, straight interblock connectors. When a block with an odd number of cells is necessary, it should be placed at the end of a cell row.



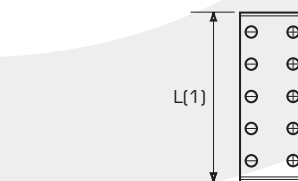
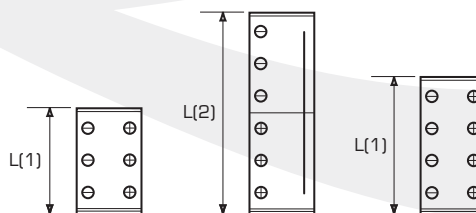
SLM 8 - SLM 48 Blocks of cells with single pole bolts.



SLM 71 - SLM 142 Blocks of cells with single pole bolts.



SLM 166 - SLM 476 Blocks of cells with 2 - 4 pole bolts per pole.

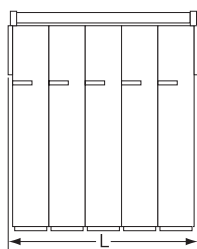
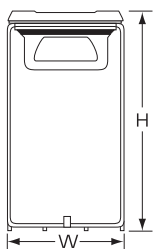


SLM 570 - SLM 850 Block of cells with 4 - 6 pole bolts per pole. Crosswise mounted on the racks.

Engineered for ultimate reliability



Ultima type	Voltage V	Rated capacity C ₅ Ah	Dimensions						Approx. weight per block		Cell connection bolt per pole	Electrolyte reserve per cell cc
			mm	L in	mm	W in	mm	H in	kg	lb		
SLM 8-4	4.8	8	133	5.24	123	4.84	270	10.63	5.5	12.1	M6	48
SLM 8-5	6	8	162	6.38	123	4.84	270	10.63	6.8	15.0	M6	48
SLM 8-6	7.2	8	191	7.52	123	4.84	270	10.63	8.1	17.9	M6	48
SLM 16-4	4.8	16	133	5.24	123	4.84	270	10.63	6.1	13.4	M6	95
SLM 16-5	6	16	162	6.38	123	4.84	270	10.63	7.6	16.8	M6	95
SLM 16-6	7.2	16	191	7.52	123	4.84	270	10.63	9.1	20.1	M6	95
SLM 24-4	4.8	24	153	6.03	123	4.84	270	10.63	7.3	16.1	M6	145
SLM 24-5	6	24	187	7.36	123	4.84	270	10.63	9.0	19.9	M6	145
SLM 24-6	7.2	24	221	8.70	123	4.84	270	10.63	10.7	23.6	M6	145
SLM 32-4	4.8	32	201	7.91	123	4.84	270	10.63	10.0	22.1	M6	190
SLM 32-5	6	32	247	9.72	123	4.84	270	10.63	12.4	27.3	M6	190
SLM 32-6	7.2	32	293	11.54	123	4.84	270	10.63	14.8	32.6	M6	190
SLM 40-4	4.8	40	249	9.80	123	4.84	270	10.63	12.3	27.1	M6	240
SLM 40-5	6	40	307	12.08	123	4.84	270	10.63	15.3	33.7	M6	240
SLM 40-6	7.2	40	365	14.37	123	4.84	270	10.63	18.3	40.4	M6	240
SLM 48-4	4.8	48	249	9.80	123	4.84	270	10.63	13.7	30.2	M6	290
SLM 48-5	6	48	307	12.08	123	4.84	270	10.63	17.0	37.5	M6	290
SLM 48-6	7.2	48	365	14.37	123	4.84	270	10.63	20.3	44.8	M6	290
SLM 71-2	2.4	71	97	3.82	195	7.68	421	16.57	10.2	22.5	M8	425
SLM 71-3	3.6	71	133	5.24	195	7.68	421	16.57	14.6	32.2	M8	425
SLM 95-2	2.4	95	112	4.41	195	7.68	421	16.57	13.3	29.3	M8	570
SLM 95-3	3.6	95	155	6.10	195	7.68	421	16.57	19.4	42.8	M8	570
SLM 119-2	2.4	119	133	5.24	195	7.68	421	16.57	15.8	34.8	M10	715
SLM 119-3	3.6	119	187	7.36	195	7.68	421	16.57	23.2	51.2	M10	715
SLM 142-2	2.4	142	145	5.71	195	7.68	421	16.57	18.5	40.8	M10	850
SLM 142-3	3.6	142	205	8.07	195	7.68	421	16.57	27.0	59.5	M10	850
SLM 166-2	2.4	166	184	7.24	195	7.68	421	16.57	22.8	50.3	2 x M8	995
SLM 166-3	3.6	166	263	10.35	195	7.68	421	16.57	33.6	74.1	2 x M8	995
SLM 190-2	2.4	190	198	7.80	195	7.68	421	16.57	25.5	56.2	2 x M8	1140
SLM 190-3	3.6	190	284	11.18	195	7.68	421	16.57	37.7	83.1	2 x M8	1140
SLM 238-2	2.4	238	241	9.49	195	7.68	421	16.57	30.5	67.3	2 x M10	1430
SLM 238-3	3.6	238	349	13.74	195	7.68	421	16.57	45.3	99.9	2 x M10	1430
SLM 285-2	2.4	285	265	10.43	195	7.68	421	16.57	33.6	74.1	2 x M10	1710
SLM 285-3	3.6	285	385	15.16	195	7.68	421	16.57	49.9	110	2 x M10	1710
SLM 357-1	1.2	357	187	7.36	195	7.68	421	16.57	23.2	51.2	3 x M10	2140
SLM 357-2	2.4	357	349	13.74	195	7.68	421	16.57	45.0	99.2	3 x M10	2140
SLM 426-1	1.2	426	205	8.07	195	7.68	421	16.57	27.0	59.5	3 x M10	2555
SLM 476-1	1.2	476	241	9.49	195	7.68	421	16.57	30.2	66.5	4 x M10	2855
SLM 570-1	1.2	570	265	10.43	195	7.68	405	15.94	34.5	76.0	4 x M10	3400
SLM 600-1	1.2	600	295	11.61	195	7.68	405	15.94	37.4	82.4	5 x M10	3580
SLM 710-1	1.2	710	325	12.80	195	7.68	405	15.94	42.0	92.5	5 x M10	4250
SLM 850-1	1.2	850	385	15.16	195	7.68	405	15.94	49.5	109.1	6 x M10	5100



Performance data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ± 5°C (+68°F ± 9°F)

Final voltage: 1.00 V/cell

Ultima type	C ₅ Ah	Hours					Minutes						Seconds			
		10	8	5	3	2	90	60	45	30	10	5	60	30	10	1
SLM 8	8	0.8	1.0	1.6	2.6	3.8	4.7	6.1	6.9	8.0	10.9	12.2	16.2	17.9	21.1	25.5
SLM 16	16	1.6	2.0	3.2	5.1	7.6	9.4	12.2	13.8	16.0	21.8	24.5	32.3	35.7	42.2	51.0
SLM 24	24	2.4	3.0	4.8	7.7	11.3	14.1	18.4	20.7	24.0	32.6	36.7	48.5	53.6	63.2	76.5
SLM 32	32	3.2	4.0	6.4	10.3	15.1	18.8	24.5	27.5	32.0	43.5	49.0	64.6	71.4	84.3	102
SLM 40	40	4.0	5.1	8.0	12.8	18.9	23.5	30.6	34.4	40.0	54.4	61.2	80.8	89.3	105	128
SLM 48	48	4.9	6.1	9.6	15.4	22.7	28.2	36.7	41.3	47.9	65.3	73.4	96.9	107	126	153
SLM 71	71	7.2	9.0	14.2	23.2	33.9	41.8	54.3	61.4	70.8	94.0	100.3	123	134	153	179
SLM 95	95	9.7	12.0	19.0	31.1	45.3	55.9	72.6	82.2	94.7	126	134	165	180	205	239
SLM 119	119	12.1	15.0	23.8	38.9	56.8	70.0	91.0	103	119	157	168	207	225	256	299
SLM 142	142	14.5	17.9	28.4	46.4	67.8	83.5	109	123	142	188	201	247	269	306	357
SLM 166	166	16.9	21.0	33.2	54.3	79.2	97.6	127	144	165	220	235	288	314	358	417
SLM 190	190	19.4	24.0	37.9	62.1	90.7	112	145	164	189	251	268	330	359	409	478
SLM 238	238	24.3	30.0	47.5	77.8	114	140	182	206	237	315	336	413	450	513	598
SLM 285	285	29.1	36.0	56.9	93.2	136	168	218	247	284	377	403	495	539	614	717
SLM 357	357	36.3	45.0	71.4	117	170	210	273	309	357	471	504	621	675	768	897
SLM 426	426	43.5	53.7	85.2	139	203	251	327	369	426	564	603	741	807	918	1071
SLM 476	476	48.6	60.0	95.0	156	228	280	364	412	474	630	672	826	900	1026	1196
SLM 570	570	58.2	71.8	114	187	273	335	436	493	568	754	805	989	1078	1229	1432
SLM 600	600	61.3	75.6	120	197	287	353	459	519	597	794	847	1041	1134	1293	1508
SLM 710	710	72.5	89.5	142	233	340	418	543	615	707	940	1001	1232	1342	1530	1784
SLM 850	850	86.8	107	170	279	407	500	650	736	846	1125	1200	1475	1607	1832	2136

Available amperes at +20°C ± 5°C (+68°F ± 9°F)

Final voltage: 1.05 V/cell

Ultima type	C ₅ Ah	Hours					Minutes						Seconds			
		10	8	5	3	2	90	60	45	30	10	5	60	30	10	1
SLM 8	8	0.8	1.0	1.6	2.5	3.5	4.3	5.4	5.9	6.5	8.5	9.9	13.3	15.0	17.5	22.1
SLM 16	16	1.6	2.0	3.2	5.1	7.1	8.7	10.9	11.8	12.9	17.0	19.7	26.5	29.9	35.0	44.2
SLM 24	24	2.4	3.0	4.7	7.6	10.6	13.0	16.3	17.7	19.4	25.5	29.6	39.8	44.9	52.5	66.3
SLM 32	32	3.2	4.0	6.3	10.1	14.2	17.3	21.8	23.7	25.8	34.0	39.4	53.0	59.8	70.0	88.4
SLM 40	40	4.1	5.0	7.9	12.7	17.7	21.7	27.2	29.6	32.3	42.5	49.3	66.3	74.8	87.6	111
SLM 48	48	4.9	6.0	9.5	15.2	21.2	26.0	32.6	35.5	38.8	51.0	59.2	79.6	89.8	105	133
SLM 71	71	7.2	8.9	14.1	22.8	32.6	38.3	46.3	51.6	59.6	74.8	83.3	106	114	128	149
SLM 95	95	9.6	11.9	18.9	30.5	43.6	51.2	61.9	69.1	79.8	100	111	142	152	171	199
SLM 119	119	12.0	14.9	23.6	38.2	54.6	64.2	77.6	86.5	100	125	140	178	191	214	249
SLM 142	142	14.3	17.7	28.2	45.6	65.1	76.6	92.6	103	119	150	167	213	228	255	298
SLM 166	166	16.7	20.7	33.0	53.3	76.1	89.5	108	121	139	175	195	248	266	298	348
SLM 190	190	19.2	23.7	37.7	61.0	87.1	102	124	138	160	200	223	284	305	341	398
SLM 238	238	24.0	29.7	47.2	76.4	109	128	155	173	200	251	279	356	382	427	499
SLM 285	285	28.7	35.6	56.6	91.5	131	154	186	207	239	300	334	426	457	512	597
SLM 357	357	36.0	44.7	70.8	115	164	193	233	260	300	375	420	534	573	642	747
SLM 426	426	42.9	53.1	84.6	137	195	230	278	309	357	450	501	639	684	765	894
SLM 476	476	48.0	59.4	94.4	153	218	256	310	346	400	502	558	712	764	854	998
SLM 570	570	57.5	71.1	113	183	261	307	371	414	479	601	668	853	915	1023	1195
SLM 600	600	60.5	74.9	119	193	275	323	391	436	504	633	703	897	963	1076	1258
SLM 710	710	71.6	88.6	141	228	325	382	462	516	597	749	832	1062	1140	1274	1489
SLM 850	850	85.7	106	169	273	389	457	554	618	714	896	996	1271	1364	1525	1782

Performance data

Performance after prolonged float charge of fully charged cells

Available amperes at +20°C ± 5°C (+68°F ± 9°F)

Final voltage: 1.10 V/cell

Ultima type	C ₅ Ah	Hours					Minutes					Seconds				
		10	8	5	3	2	90	60	45	30	10	5	60	30	10	1
SLM 8	8	0.8	1.0	1.6	2.3	3.0	3.5	4.4	4.8	5.3	6.5	7.6	10.5	11.9	14.1	17.9
SLM 16	16	1.6	2.0	3.1	4.6	5.9	7.0	8.8	9.5	10.5	13.0	15.1	21.1	23.8	28.2	35.7
SLM 24	24	2.4	3.0	4.7	6.8	8.9	10.5	13.3	14.3	15.8	19.4	22.7	31.6	35.7	42.3	53.6
SLM 32	32	3.2	4.0	6.2	9.1	11.9	14.0	17.7	19.0	21.1	25.9	30.3	42.2	47.6	56.4	71.4
SLM 40	40	4.0	5.0	7.8	11.4	14.9	17.6	22.1	23.8	26.4	32.4	37.8	52.7	59.5	70.6	89.3
SLM 48	48	4.8	6.0	9.3	13.7	17.8	21.1	26.5	28.6	31.6	38.9	45.4	63.2	71.4	84.7	107
SLM 71	71	7.1	8.8	13.8	21.5	29.0	33.5	39.2	42.7	47.2	58.3	64.6	83.3	92.7	102	111
SLM 95	95	9.5	11.8	18.4	28.8	38.9	44.8	52.4	57.2	63.1	78.0	86.4	111	124	136	149
SLM 119	119	11.9	14.7	23.1	36.0	48.7	56.1	65.6	71.6	79.1	97.7	108	140	155	171	187
SLM 142	142	14.2	17.6	27.5	43.0	58.1	67.0	78.3	85.4	94.3	117	129	167	185	204	223
SLM 166	166	16.6	20.5	32.2	50.3	67.9	78.3	91.6	100	110	136	151	195	217	238	260
SLM 190	190	19.0	23.5	36.9	57.5	77.7	89.6	105	114	126	156	173	223	248	273	298
SLM 238	238	23.8	29.5	46.2	72.1	97.3	112	131	143	158	195	217	279	311	342	373
SLM 285	285	28.5	35.3	55.3	86.3	117	134	157	171	189	234	259	334	372	409	447
SLM 357	357	35.7	44.1	69.3	108	146	168	197	215	237	293	324	420	465	513	561
SLM 426	426	42.6	52.8	82.5	129	174	201	235	256	283	351	387	501	555	612	669
SLM 476	476	47.6	59.0	92.4	144	195	224	262	286	316	390	434	558	622	684	746
SLM 570	570	57.0	70.7	111	172	234	268	314	342	378	467	520	668	745	819	893
SLM 600	600	60.0	74.4	116	182	246	282	330	361	398	492	547	703	784	862	940
SLM 710	710	71.0	88.0	138	215	291	334	391	427	471	582	647	832	928	1020	1113
SLM 850	850	85.0	105	165	257	348	400	468	511	564	696	775	996	1111	1221	1332

Available amperes at +20°C ± 5°C (+68°F ± 9°F)

Final voltage: 1.14 V/cell

Ultima type	C ₅ Ah	Hours					Minutes					Seconds				
		10	8	5	3	2	90	60	45	30	10	5	60	30	10	1
SLM 8	8	0.8	1.0	1.5	2.0	2.4	2.7	3.4	3.7	4.1	5.3	6.2	8.3	9.7	11.6	15.1
SLM 16	16	1.6	1.9	3.0	3.9	4.8	5.5	6.7	7.3	8.2	10.5	12.3	16.7	19.4	23.1	30.3
SLM 24	24	2.3	2.9	4.6	5.9	7.2	8.2	10.1	11.0	12.2	15.8	18.5	25.0	29.1	34.7	45.4
SLM 32	32	3.1	3.8	6.1	7.9	9.6	11.0	13.5	14.6	16.3	21.1	24.6	33.3	38.8	46.2	60.5
SLM 40	40	3.9	4.8	7.6	9.9	12.0	13.7	16.8	18.3	20.4	26.4	30.8	41.7	48.5	57.8	75.7
SLM 48	48	4.7	5.7	9.1	11.8	14.4	16.5	20.2	21.9	24.5	31.6	36.9	50.0	58.1	69.4	90.8
SLM 71	71	6.9	8.5	13.5	19.5	22.0	23.7	27.1	28.5	32.9	41.8	48.5	62.9	68.0	76.5	86.7
SLM 95	95	9.2	11.4	18.0	26.1	29.4	31.7	36.3	38.1	44.1	55.9	64.8	84.2	91.0	102	116
SLM 119	119	11.6	14.3	22.6	32.7	36.9	39.7	45.5	47.7	55.2	70.0	81.2	105	114	128	145
SLM 142	142	13.8	17.1	27.0	39.0	44.0	47.3	54.3	57.0	65.9	83.5	96.9	126	136	153	173
SLM 166	166	16.1	19.9	31.5	45.6	51.4	55.3	63.5	66.6	77.0	97.6	113	147	159	179	203
SLM 190	190	18.5	22.8	36.1	52.2	58.9	63.3	72.6	76.2	88.1	112	130	168	182	205	232
SLM 238	238	23.1	28.6	45.2	65.4	73.7	79.3	91.0	95.5	110	140	162	211	228	256	291
SLM 285	285	27.7	34.2	54.1	78.3	88.3	95.0	109	114	132	168	194	252	273	307	348
SLM 357	357	34.8	42.9	67.8	98.1	111	119	137	143	166	210	244	315	342	384	435
SLM 426	426	41.4	51.3	81.0	117	132	142	163	171	198	251	291	378	408	459	519
SLM 476	476	46.2	57.2	90.4	131	147	159	182	191	220	280	324	422	456	512	582
SLM 570	570	55.3	68.5	108	157	176	190	218	229	263	335	388	505	546	613	697
SLM 600	600	58.2	72.1	114	165	185	200	229	241	277	353	408	532	575	645	734
SLM 710	710	68.9	85.3	135	195	219	237	271	285	328	418	483	629	680	764	868
SLM 850	850	82.5	102	161	234	263	284	325	341	393	500	579	754	814	914	1039



Saft is committed to the highest standards of environmental stewardship.

As part of its environmental commitment, Saft gives priority to recycled raw materials over virgin raw materials, reduces its plants' releases to air and water year after year, minimizes water usage, reduces fossil energy consumption and associated CO₂ emissions, and ensures that its customers have recycling solutions available for their spent batteries.

Regarding industrial nickel-based batteries, Saft has had partnerships for many years with collection companies in most EU countries, in North America and in other countries. This collection network receives and dispatches our customers' batteries at the end of their lives to fully approved recycling facilities, in compliance with the laws governing trans-boundary waste shipments.

This collection network is undergoing minor adaptations to meet the requirements of the EU batteries directive. A list of our collection points is available on our web site.

In other countries, Saft assists users of its batteries in finding environmentally sound recycling solutions. Please contact your sales representative for further information.

Africa

Saft export sales dpt,
France
Tel.: +33 1 49 93 19 18
Fax: +33 1 49 93 19 56

Argentina

Energia Alcalina,
Buenos Aires
Tel.: +54 11 4334 9034/35
Fax: +54 11 4342 5024

Australia

Saft Australia Pty Ltd,
Seven Hills
Tel.: +61 2 9674 0700
Fax: +61 2 9620 9990

Austria

Statron GmbH,
Wien
Tel.: +43 1 617 40 60
Fax: +43 1 617 40 60/40

Belgium

AEG Belgium SA,
Brussels
Tel.: +32 2 529 6543
Fax: +32 2 529 6449

Brazil

Adelco Sistemas de Energia Ltda.,
São Paulo
Tel.: +55 11 4199 7500
Fax: +55 11 4161 5307

Canada

Please contact USA office

China

Saft (Zhuhai Free Trade Zone) Batteries Co Ltd,
Shanghai
Tel.: +86 21 5866 6405
Fax: +86 21 5866 6403

Czech Republic

Saft Ferak a.s.,
Prague
Tel.: +420 257 013 260
Fax: +420 257 013 261

Denmark

Scansupply A/S,
Birkerød
Tel.: +45 45 82 50 90
Fax: +45 45 82 54 40

Finland

HansaBattery Oy,
Espoo
Tel.: +358 207 63 1883
Fax: +358 207 63 1889

France

Saft France,
Bagnole
Tel.: +33 1 49 93 19 18
Fax: +33 1 49 93 19 64

Germany

Saft Batterien GmbH,
Nürnberg
Tel.: +49 911 94 174-0
Fax: +49 911 426 144

Hong Kong (Stationary, railway,
telecom and renewable applications)

Saft Hong Kong Ltd.,
Kowloon
Tel.: +852 3568 7066
Fax: +852 2798 0619

India sub continent

AMCO-Saft India Ltd,
Bangalore, India
Tel.: +91 80 2 363 7790
Fax: +91 80 2 363 7716

Italy

Saft Batterie Italia S.r.l.,
Segrate (Milano)
Tel.: +39 02 89 28 07 47
Fax: +39 02 89 28 07 62

Japan

Sumitomo Corp.,
Tokyo
Tel.: +81 3 5144 9082
Fax: +81 3 5144 9267

Korea

Energys Korea Co. Ltd,
Seoul
Tel.: +82 2501 0033
Fax: +82 2501 0034

Mexico

Troop y Compania, SA de CV,
Mexico
Tel.: +52 55 50 82 10 30
Fax: +52 55 50 82 10 39

Middle East

Saft Nife ME Ltd,
Limassol, Cyprus
Tel.: +357 25 820040
Fax: +357 25 748492

Netherlands

Saft Batterijen B.V.,
Eindhoven
Tel.: +31 40 272 1900
Fax: +31 40 272 1904

Norway

Saft AS,
Osteraas
Tel.: +47 6716 4160
Fax: +47 6716 4170

Russia

ZAO Ancor,
Moscow
Tel.: +7495 788 5204
Fax: +7898 958 1323

Singapore

Saft Batteries Pte Ltd,
Singapore
Tel.: +65 6512 1500
Fax: +65 6749 7282

Spain

Saft Baterias S.L.
San Sebastian de los Reyes
Tel.: +34 916 593 480
Fax: +34 916 593 490

Sweden

Saft AB,
Oskarshamn
Tel.: +46 491 680 00
Fax: +46 491 681 80

Switzerland

Statron AG,
Mägenwil
Tel.: +41 62 887 4 887
Fax: +41 62 887 4 888

United Kingdom

Saft Ltd,
Harlow
Tel.: +44 1279 772 550
Fax: +44 1279 420 909

USA

Saft America Inc.,
(Stationary and renewable applications)
North Haven (CT)
Tel.: +1 203 985 2700
Fax: +1 203 985 2739

(Telecom applications)
Valdosta (GA)
Tel.: +1 229 245 2854
Fax: +1 229 247 8486

(Rail/Transit Sales)
Cockeysville (MD)
Tel.: +1 410 771 32 00
Fax: +1 410 771 11 44

Venezuela

Corporación INTELEC C.A.,
Caracas
Tel.: +58 212 963 1122
Fax: +58 212 961 4908

Western Asia

Export sales dpt,
Sweden
Tel.: +46 491 680 00
Fax: +46 491 681 80

Saft
Industrial Battery Group
12, rue Sadi Carnot
93170 Bagnole – France
Tel: +33 1 49 93 19 18
Fax: +33 1 49 93 19 64

www.saftbatteries.com

Doc N° 21113-2-1010
Edition: October 2010

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Société anonyme au capital de 31 944 000 €
RCS Bobigny B 383 703 873

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