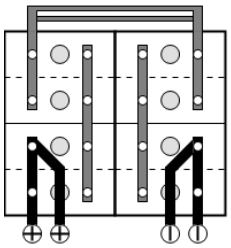
SBM 346 - Cell data sheet

Classification

Brand	Saft
Cell type	SBM 346
Cell P/N	310048872
Capacity at 5 hours rate	346 Ah
IEC Designation	KM346P
According to IEC 60623	

Wiring principle Normal



Physical data

Overall height	406 mm		
Cell height			
Width	195 mm	Weight per cell	18,8 Kg
Length	146 mm	Block length - 2 cells	279 mm
Block length - 3 cells	-	Block length - 4 cells	-
Block length - 5 cells	-	Block length - 6 cells	-
Block length - 7 cells	-	Block length - 8 cells	-
Block length - 9 cells	-	Block length - 10 cells	-

Construction

Container material	Polypropylene	No. of terminals/polarity	2
Separator type	Grid	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	flame arresting vent (large)
Terminal size	M10		
		Handle	Yes

Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket

Electrolyte

Electrolyte type: Renewal	E13	Max/Min	50 mm
Electrolyte type: Initial	E22	Vent oil quantity	
Electrolyte per cell: Liquid	4,8 liters		

Connection

Cable area of internal connection cables	95 mm²	End-lug (and external cable)	95 mm²

SBM 346 - Cell data sheet

Charging

Float voltage	1,4 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,43 V/Cell		

Resistance/Short circuit

Internal resistance	0,25 mOhm	Short circuit current	5436 A

Performance data

Current discharge

After prolonged float charge of fully charged cells. Available amperes at +20°C +/- 5°C (+68°F +/- 9°F)

V/Cell	10h	8h	5h	3h	2h	1,5h	1h	30m	20m	15m	10m	5m	1m	30s	5s	1s
1	35,2	43,6	69,2	113	165	206	290	395	457	495	564	664	897	1.001	1.195	1.264
1,05	34,9	43,2	68,6	112	155	198	262	334	394	430	470	544	761	856	1.009	1.086
1,1	34,3	42,6	67,4	104	145	175	213	266	324	337	384	461	642	716	845	898
1,14	33,4	41,4	65,2	98,3	127	146	172	209	239	259	297	371	518	574	664	684
1,16	32,4	39,8	60,0	91,0	107	115	143	178	204	214	238	296	435	484	545	579

Power discharge

Available power (W), after prolonged float charged of fully charged cells at +20°C +/- 5°C (+68°F +/- 9°F)

V/Cell	10h	8h	5h	3h	2h	1,5h	1h	30m	20m	15m	10m	5m	1m	30s	5s	1s
1	42,0	51,5	80,8	126	176	216	299	400	461	497	566	664	897	1.001	1.195	1.264
1,05	41,6	51,2	80,3	125	170	215	281	355	416	453	494	572	800	899	1.059	1.141
1,1	40,9	50,6	79,2	120	164	197	237	295	357	371	423	507	707	788	930	988
1,14	39,9	49,2	76,9	114	146	168	197	239	273	296	339	423	591	655	757	780
1,16	38,8	47,3	70,9	107	124	135	166	207	237	248	277	343	504	562	632	672

SBM 346 - Cell data sheet

Kt Factor

Current discharge

After prolonged float charge of fully charged cells. Kt factor at +20°C +/- 5°C (+68°F +/- 9°F)

V/Cell	10h	8h	5h	3h	2h	1,5h	1h	30m	20m	15m	10m	5m	1m	30s	5s	1s
1	9,8	7,94	5,00	3,06	2,09	1,68	1,19	0,88	0,76	0,70	0,61	0,52	0,39	0,35	0,29	0,27
1,05	9,9	8,00	5,05	3,09	2,23	1,74	1,32	1,03	0,88	0,81	0,74	0,64	0,45	0,40	0,34	0,32
1,1	10,1	8,12	5,14	3,31	2,39	1,98	1,62	1,30	1,07	1,03	0,90	0,75	0,54	0,48	0,41	0,39
1,14	10,4	8,36	5,31	3,52	2,73	2,37	2,02	1,66	1,45	1,34	1,16	0,93	0,67	0,60	0,52	0,51
1,16	10,7	8,70	5,77	3,80	3,25	3,00	2,42	1,94	1,69	1,62	1,45	1,17	0,80	0,71	0,64	0,60

Power discharge

Kt factor power, after prolonged float charged of fully charged cells at +20°C +/- 5°C (+68°F +/- 9°F)

V/Cell	10h	8h	5h	3h	2h	1,5h	1h	30m	20m	15m	10m	5m	1m	30s	5s	1s
1	8,24	6,72	4,28	2,74	1,96	1,60	1,16	0,86	0,75	0,70	0,61	0,52	0,39	0,35	0,29	0,27
1,05	8,31	6,75	4,31	2,76	2,03	1,61	1,23	0,98	0,83	0,76	0,70	0,61	0,43	0,38	0,33	0,30
1,1	8,45	6,84	4,37	2,89	2,11	1,76	1,46	1,17	0,97	0,93	0,82	0,68	0,49	0,44	0,37	0,35
1,14	8,68	7,03	4,50	3,03	2,36	2,06	1,76	1,45	1,27	1,17	1,02	0,82	0,59	0,53	0,46	0,44
1,16	8,92	7,31	4,88	3,24	2,78	2,57	2,08	1,67	1,46	1,40	1,25	1,01	0,69	0,62	0,55	0,52