

# SBH 98 - Cell data sheet

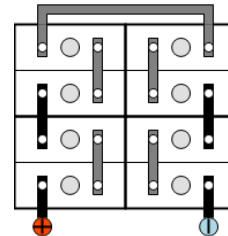
## Classification

Brand	Saft
Cell type	SBH 98
Cell P/N	310050072
Capacity at 5 hours rate	98 Ah
IEC Designation	KH98P
According to IEC 60623	



Wiring principle

Normal



## Physical data

Overall height	350 mm		
Cell height			
Width	195 mm	Weight per cell	9.4 Kg
Block length - 2 cells	159 mm	Block length - 3 cells	232 mm

## Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	30.0 +/- 3.0 Nm	Vent type	Flame arresting vent (large)
Terminal size	M10 SW 16 mm	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	2.4 liters		

## Connection

Cable area of internal connection cables	120 mm <sup>2</sup>	End-lug (and external cable)	120 mm <sup>2</sup>
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## Charging

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Float voltage	1.4 V/Cell	High rate voltage (min)	1.45 V/Cell
Single-level voltage	1.43 V/Cell		

## Resistance/Short circuit

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Internal resistance	0.40 mOhm	Short circuit current	3426 A
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## Performance data

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### 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	9.8	12.3	19.6	32.2	47.8	63.0	92.1	169	227	264	314	390	505	576	726	797
1.05	9.8	12.2	19.3	31.8	46.9	61.6	89.0	160	196	226	268	318	430	490	605	649
1.1	9.5	11.9	18.8	30.9	45.4	59.4	84.4	131	157	177	200	247	339	392	480	538
1.14	9.20	11.5	18.1	29.7	43.4	56.2	74.7	102	121	136	154	189	271	314	392	412
1.16	8.94	11.2	17.7	28.5	39.8	50.1	60.5	83.8	102	111	124	155	230	263	326	351

### Engine starting performance

For a fully charged cell by a constant current charge according to IEC 60623 standard at +20°C +/- 5°C (+68°F +/- 9°F), 30 seconds discharge down to 0,85 V

Available amperes	937 A
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### 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	11.9	14.9	23.4	38.2	56.4	71.4	100	176	232	268	317	390	505	576	726	797
1.05	11.8	14.8	23.1	37.7	55.3	70.6	99.0	173	209	240	283	334	452	515	636	682
1.1	11.5	14.4	22.5	36.6	53.6	68.8	96.1	146	174	196	221	271	373	431	528	592
1.14	11.1	13.9	21.6	35.2	51.2	65.7	86.5	117	139	156	176	215	309	358	447	470
1.16	10.8	13.5	21.1	33.8	47.0	58.9	70.8	97.6	119	129	144	180	267	305	379	407

### Engine starting performance

For a fully charged cell by a constant current charge according to IEC 60623 standard at +20°C +/- 5°C (+68°F +/- 9°F), 30 seconds discharge down to 0,85 V

Available amperes	937 A
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## Kt Factor

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### 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	10.0	7.97	5.00	3.04	2.05	1.56	1.06	0.58	0.43	0.37	0.31	0.25	0.19	0.17	0.14	0.12
1.05	10.0	8.03	5.08	3.08	2.09	1.59	1.10	0.61	0.50	0.43	0.37	0.31	0.23	0.20	0.16	0.15
1.1	10.3	8.24	5.21	3.17	2.16	1.65	1.16	0.75	0.63	0.55	0.49	0.40	0.29	0.25	0.20	0.18
1.14	10.7	8.52	5.41	3.30	2.26	1.74	1.31	0.96	0.81	0.72	0.64	0.52	0.36	0.31	0.25	0.24
1.16	11.0	8.77	5.55	3.44	2.46	1.96	1.62	1.17	0.96	0.88	0.79	0.63	0.43	0.37	0.30	0.28

### Engine starting performance

For a fully charged cell by a constant current charge according to IEC 60623 standard at +20°C +/- 5°C (+68°F +/- 9°F), 30 seconds discharge down to 0,85 V

Available amperes 937 A

### 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	8.23	6.58	4.18	2.57	1.74	1.37	0.98	0.56	0.42	0.36	0.31	0.25	0.19	0.17	0.14	0.12
1.05	8.30	6.64	4.25	2.60	1.77	1.39	0.99	0.57	0.47	0.41	0.35	0.29	0.22	0.19	0.15	0.14
1.1	8.51	6.81	4.36	2.68	1.83	1.42	1.02	0.67	0.56	0.50	0.44	0.36	0.26	0.23	0.19	0.17
1.14	8.80	7.04	4.53	2.78	1.91	1.49	1.13	0.84	0.70	0.63	0.56	0.46	0.32	0.27	0.22	0.21
1.16	9.06	7.25	4.64	2.90	2.08	1.66	1.38	1.00	0.83	0.76	0.68	0.54	0.37	0.32	0.26	0.24

### Engine starting performance

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

Available amperes 937 A