

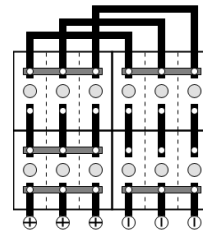
SBH 353 - Cell data sheet

Classification

Brand	Saft
Cell type	SBH 353
Cell P/N	310110871
Capacity at 5 hours rate	353 Ah
IEC Designation	KH353P
According to IEC 60623	



Wiring principle



Crosswise

Physical data

Overall height	354 mm		
Cell height			
Width	195 mm	Weight per cell	31,8 Kg
Length	268 mm	Block length - 2 cells	-
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	3
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	8,1 liters		

Connection

Cable area of internal connection cables	120 mm ²	End-lug (and external cable)	120 mm ²
--	---------------------	------------------------------	---------------------

SBH 353 - 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	0,11 mOhm	Short circuit current	12341 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	35,4	44,3	70,6	116	172	227	332	609	818	952	1.132	1.405	1.819	2.075	2.615	2.870
1,05	35,2	43,9	69,5	115	169	222	321	576	706	814	966	1.145	1.549	1.765	2.179	2.338
1,1	34,3	42,9	67,7	111	164	214	304	471	565	637	721	888	1.221	1.412	1.729	1.937
1,14	33,1	41,4	65,2	107	156	202	269	368	437	491	556	680	976	1.131	1.412	1.484
1,16	32,2	40,2	63,6	103	144	180	218	302	368	400	446	560	828	946	1.176	1.265

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	3.376 A
-------------------	---------

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	42,9	53,6	84,4	137	203	257	360	633	837	967	1.142	1.405	1.819	2.075	2.615	2.870
1,05	42,5	53,2	83,1	136	199	254	357	621	753	864	1.020	1.202	1.627	1.854	2.289	2.455
1,1	41,5	51,9	80,9	132	193	248	346	526	627	705	796	977	1.343	1.554	1.902	2.132
1,14	40,1	50,1	77,9	127	184	237	312	422	501	561	635	775	1.113	1.290	1.610	1.692
1,16	39,0	48,7	76,0	122	169	212	255	352	428	465	518	649	961	1.098	1.365	1.468

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	3.376 A
-------------------	---------

SAFT confidential and proprietary. The data herein given are for information purposes only and are not binding on SAFT. They may be modified without prior notice. Please contact a SAFT representative in order to obtain confirmation of the above data.

Visit our website at www.saftbatteries.com

(378215) Version: 2.7, Last updated on 02/2019

P 2/3

SBH 353 - 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	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 3.376 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 3.376 A