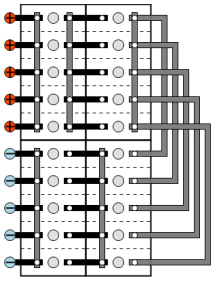
SBLE 1350 - Cell data sheet

Classification

Brand	Saft
Cell type	SBLE 1350
Cell P/N	311032971
Capacity at 5 hours rate	1,350 Ah
IEC Designation	KL1350P
According to IEC 60623	

Wiring principle Crosswise



Physical data

Overall height	410 mm		
Cell height			
Width	195 mm	Weight per cell	56.3 Kg
Length	426 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	5
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	14.4 liters		

Connection

Cable area of internal connection cables	70 mm²	End-lug (and external cable)	50 mm²

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Charging

Float voltage	1.42 V/Cell	High rate voltage (min)	1.47 V/Cell
Single-level voltage	1.43 V/Cell		

Resistance/Short circuit

Internal resistance	0.12 mOhm	Short circuit current	11230 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	139	172	270	432	576	694	889	1,147	1,286	1,381	1,484	1,702	1,890	2,025	2,430	2,612
1.05	138	171	267	418	522	596	744	970	1,072	1,112	1,235	1,410	1,520	1,661	1,996	2,166
1.1	135	166	254	352	442	510	601	755	816	895	985	1,034	1,239	1,350	1,644	1,802
1.14	132	156	224	305	366	406	467	598	640	664	747	869	1,010	1,103	1,373	1,520
1.16	124	142	193	262	312	338	384	503	559	604	662	792	921	1,006	1,253	1,387

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	161	196	302	462	603	718	909	1,158	1,294	1,386	1,487	1,702	1,890	2,025	2,430	2,612
1.05	161	198	303	461	566	641	793	1,025	1,130	1,171	1,299	1,480	1,596	1,744	2,096	2,274
1.1	158	193	293	399	496	568	667	834	900	986	1,084	1,138	1,362	1,485	1,808	1,982
1.14	155	182	261	353	421	466	535	683	731	758	852	990	1,151	1,258	1,566	1,733
1.16	146	167	227	306	364	394	446	584	649	701	768	919	1,068	1,168	1,453	1,608

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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	9.7	7.85	5.00	3.12	2.34	1.95	1.52	1.18	1.05	0.98	0.91	0.79	0.71	0.67	0.56	0.52
1.05	9.8	7.88	5.05	3.23	2.58	2.26	1.81	1.39	1.26	1.21	1.09	0.96	0.89	0.81	0.68	0.62
1.1	10.0	8.16	5.31	3.83	3.05	2.65	2.25	1.79	1.66	1.51	1.37	1.31	1.09	1.00	0.82	0.75
1.14	10.2	8.68	6.04	4.42	3.69	3.33	2.89	2.26	2.11	2.03	1.81	1.55	1.34	1.22	0.98	0.89
1.16	10.9	9.5	6.98	5.15	4.32	3.99	3.52	2.69	2.41	2.23	2.04	1.70	1.47	1.34	1.08	0.97

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	8.38	6.87	4.47	2.92	2.24	1.88	1.49	1.17	1.04	0.97	0.91	0.79	0.71	0.67	0.56	0.52
1.05	8.41	6.83	4.45	2.93	2.38	2.11	1.70	1.32	1.19	1.15	1.04	0.91	0.85	0.77	0.64	0.59
1.1	8.55	7.01	4.60	3.39	2.72	2.37	2.02	1.62	1.50	1.37	1.24	1.19	0.99	0.91	0.75	0.68
1.14	8.71	7.41	5.17	3.82	3.20	2.90	2.52	1.98	1.85	1.78	1.58	1.36	1.17	1.07	0.86	0.78
1.16	9.27	8.09	5.94	4.41	3.71	3.43	3.03	2.31	2.08	1.93	1.76	1.47	1.26	1.16	0.93	0.84