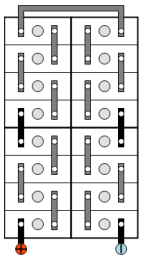
SBLE 30 - Cell data sheet

Classification

Brand	Saft
Cell type	SBLE 30 (Inactive)
Cell P/N	310545771
Capacity at 5 hours rate	30 Ah
IEC Designation	KL30P
According to IEC 60623	

Wiring principle Normal



Physical data

Overall height	270 mm		
Cell height	260 mm		
Width	123 mm	Weight per cell	1.8 Kg
Block length - 4 cells	143 mm	Block length - 5 cells	178 mm
Block length - 6 cells	212 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	11.0 +/- 1.1 Nm	Vent type	Flame arresting vent (small)
Terminal size	M6 SW 10 mm		
		Handle	No

Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket

Electrolyte

Electrolyte type: Renewal	E13	Max/Min	35 mm
Electrolyte type: Initial	E22	Vent oil quantity	25 cm3
Electrolyte per cell: Liquid	0.5 liters		

Connection

Cable area of internal connection cables	16 mm²	End-lug (and external cable)	6 mm²

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Charging

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

Resistance/Short circuit

Internal resistance	4.17 mOhm	Short circuit current	371 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	3.07	3.83	6.00	9.6	12.9	16.0	21.2	28.4	32.1	34.8	37.4	47.3	53.6	59.5	76.5	86.3
1.05	3.06	3.79	5.88	9.30	11.6	13.7	18.0	24.1	28.2	30.4	33.6	34.1	43.2	48.5	63.3	71.2
1.1	3.00	3.67	5.65	8.03	10.2	12.2	14.4	19.3	21.5	22.9	25.5	30.1	34.9	40.0	52.4	59.5
1.14	2.94	3.46	4.96	7.05	8.76	9.8	11.8	15.2	17.1	18.4	19.3	22.1	28.5	33.0	43.3	49.6
1.16	2.76	3.15	4.30	6.05	7.47	8.20	9.7	12.7	14.9	16.7	17.1	20.1	26.0	30.1	39.5	45.2

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	3.56	4.37	6.71	10.3	13.5	16.5	21.7	28.7	32.3	34.9	37.5	47.3	53.6	59.5	76.5	86.3
1.05	3.56	4.37	6.68	10.2	12.5	14.8	19.2	25.5	29.7	32.0	35.3	35.8	45.4	51.0	66.5	74.8
1.1	3.51	4.27	6.52	9.08	11.4	13.6	16.0	21.3	23.7	25.2	28.1	33.2	38.4	44.0	57.6	65.4
1.14	3.45	4.05	5.80	8.16	10.1	11.3	13.6	17.3	19.5	21.0	22.0	25.2	32.5	37.6	49.3	56.5
1.16	3.24	3.71	5.05	7.07	8.71	9.5	11.3	14.8	17.3	19.4	19.9	23.4	30.2	34.9	45.8	52.5

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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	9.8	7.84	5.00	3.12	2.33	1.88	1.42	1.06	0.93	0.86	0.80	0.63	0.56	0.50	0.39	0.35
1.05	9.8	7.92	5.10	3.23	2.59	2.18	1.67	1.24	1.06	0.99	0.89	0.88	0.69	0.62	0.47	0.42
1.1	10.0	8.16	5.31	3.74	2.94	2.46	2.09	1.55	1.40	1.31	1.17	1.00	0.86	0.75	0.57	0.50
1.14	10.2	8.68	6.04	4.26	3.43	3.05	2.54	1.98	1.76	1.63	1.55	1.36	1.05	0.91	0.69	0.61
1.16	10.9	9.5	6.98	4.96	4.02	3.66	3.09	2.35	2.01	1.80	1.75	1.49	1.15	1.00	0.76	0.66

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	8.42	6.87	4.47	2.92	2.22	1.81	1.39	1.05	0.93	0.86	0.80	0.63	0.56	0.50	0.39	0.35
1.05	8.42	6.87	4.49	2.93	2.39	2.03	1.57	1.18	1.01	0.94	0.85	0.84	0.66	0.59	0.45	0.40
1.1	8.55	7.02	4.60	3.30	2.62	2.21	1.88	1.41	1.27	1.19	1.07	0.90	0.78	0.68	0.52	0.46
1.14	8.70	7.41	5.17	3.68	2.98	2.66	2.21	1.73	1.54	1.43	1.36	1.19	0.92	0.80	0.61	0.53
1.16	9.25	8.09	5.94	4.24	3.44	3.14	2.66	2.03	1.73	1.55	1.51	1.28	0.99	0.86	0.66	0.57