

SBM 216 - Cell data sheet

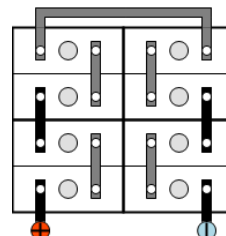
Classification

Brand	Saft
Cell type	SBM 216
Cell P/N	311035472
Capacity at 5 hours rate	216 Ah
IEC Designation	KM208P
According to IEC 60623	



Wiring principle

Normal



Physical data

Overall height	406 mm		
Cell height			
Width	195 mm	Weight per cell	12.0 Kg
Length	-	Block length - 2 cells	183 mm
Block length - 3 cells	268 mm	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	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	3.2 liters		

Connection

Cable area of internal connection cables	120 mm²	End-lug (and external cable)	120 mm²
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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	0.40 mOhm	Short circuit current	3393 A
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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	22.0	27.2	43.2	70.6	103	128	181	246	286	309	352	415	560	625	746	789
1.05	21.8	27.0	42.8	69.8	97.0	124	163	209	246	268	293	340	475	534	630	678
1.1	21.4	26.6	42.0	65.2	90.4	109	133	166	202	210	240	288	401	447	528	561
1.14	20.8	25.8	40.7	61.3	79.1	91.2	107	130	149	162	185	231	323	358	414	427
1.16	20.3	24.8	37.4	56.8	66.5	72.1	89.1	111	128	133	149	185	271	302	340	362

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	26.2	32.1	50.4	78.9	110	135	187	250	288	311	353	415	560	625	746	789
1.05	26.0	32.0	50.2	78.1	106	134	175	221	260	283	308	357	499	561	661	712
1.1	25.6	31.6	49.4	74.7	102	123	148	184	223	232	264	317	441	492	581	617
1.14	24.9	30.7	48.0	71.4	91.4	105	123	149	170	184	212	264	369	409	473	487
1.16	24.2	29.6	44.2	66.6	77.7	84.0	104	129	148	155	173	214	315	351	395	419

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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	7.94	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