Cell Data Sheet

SBM 84

Classification

Brand	**Saft**
Cell type	**SBM 84**
Cell P/N	**31-00478-7***
Capacity at 5 hour rate	**84 Ah**
IEC Designation	**KM 84 P**
According to IEC 60623	

Physical Data

Overall height	**405**	**mm**	**Block length - 2 cells**	**79**	**mm**
Width	**195**	**mm**	**Block length - 3 cells**	**115**	**mm**
Weight per cell	**4,9**	**kg**			

Construction

Container material	**Polypropylene**	**No. of terminals/polarity**	**1**	
Separator type	**Grid**	**Terminal material**	**Steel**	
Connection torque	**20 +/- 2 Nm**	**Space above plates**	**34**	**mm**
Terminal size	**M8**	**Space below plates**	**15**	**mm**
Vent type	**Flame arrest**			

Plates

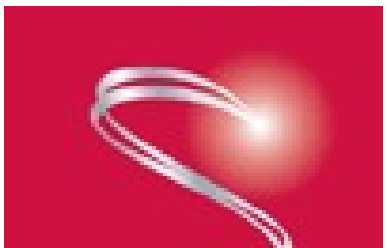
Positive			Negative		
Type of plates	**Pocket**		**Type of plates**	**Pocket**	
Thickness	**2,7**	**mm**	**Thickness**	**2,2**	**mm**

Electrolyte

Electrolyte type: Renewal	**E13**		**Max/Min**	**50**	**mm**
Electrolyte type: Initial	**E22**		**Reserve consumable**	**0,28**	**liters**
Electrolyte per cell: Liquid	**1,2**	**liters**	**Vent oil quantity**	**25**	**cm3**

Connection

Cable area	**35**	**mm2**



Charging

Float voltage	**1,4**	**V/Cell**	**High rate voltage (min)**	**1,45**	**V/Cell**
Single-level voltage	**1,43**	**V/Cell**			

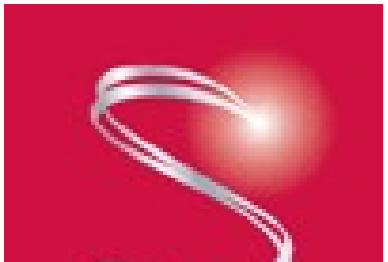
Resistance / Short Circuit

Internal resistance	**1,02**	**mOhm**	**Short circuit current**	**1290**	**A**

Performance Data

Stationary performance

After prolonged float charge of a fully charged cell, available amperes at 20+/-5°C (77+/-9°F)

V/Cell	10h	8h	5h	3h	2h	1.5h	1h	30m	20m	15m	10m	5m	1m	30s	5s	1s
1	8,53	10,6	16,8	27,5	40,2	48,6	62,7	88,4	104	114	129	156	215	240	290	300
1,05	8,46	10,5	16,6	27,1	35,4	42,9	56,4	75,0	85,7	94,4	108	127	175	200	233	255
1,1	8,33	10,3	16,4	24,4	31,6	37,8	47,2	60,9	70,6	76,4	85,7	102	142	158	187	200
1,14	8,12	10,1	15,8	21,4	27,2	32,4	38,0	48,6	56,0	60,9	69,4	82,4	115	129	147	153

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