SBM 231 - Cell data sheet

Classification

Brand	Saft
Cell type	SBM 231
Cell P/N	31-00484-7*
Capacity at 5 hours rate	231 Ah
IEC Designation	KM231P
According to IEC 60623	

Physical data

Overall height	405 mm		
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
Terminal size	M10		

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	60 cm3
Electrolyte per cell: Liquid	2,9 liters		

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Connection

Cable area	120 mm²

Charging

Float voltage	1,40 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,43 V/Cell		

Resistance/Short circuit

Internal resistance	0,37 mOhm	Short circuit current	3547 A

Performance data

Stationary performance

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
1,00	23,4	29,1	46,2	75,5	111	134	172	243	285	312	355	428	592	660	797	825
1,05	23,3	28,9	45,7	74,5	97,5	118	155	206	236	260	296	350	481	550	642	700
1,10	22,9	28,4	45,0	67,2	86,8	104	130	167	194	210	236	282	392	436	513	550
1,14	22,3	27,7	43,4	58,9	74,8	89,2	105	134	154	167	191	229	316	355	412	420

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