

Cell Data Sheet

SCM 18

Classification

Brand	Saft
Cell type	SCM 18
Cell P/N	31-02963-71
Capacity at 5 hour rate	18 Ah
IEC Designation	KM 18 P
According to IEC 60623	



Physical Data

Overall height	287 mm	length	46 mm
Width	87 mm	Weight per cell	1,9 kg

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	18 +/- 2 Nm	Space above plates	30,5 mm
Terminal size	M10	Space below plates	15,2 mm
Vent type	Flame arrest		

Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket
Thickness	3,6 mm	Thickness	2,3 mm

Electrolyte

Electrolyte type: Renewal	E13	Max/Min	40 mm
Electrolyte type: Initial	E22	Reserve consumable	0,11 liters
Electrolyte per cell: Liquid	0,46 liters	Vent oil quantity	15 cm3

Connection

Cable area	10 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	3,89	mOhm	Short circuit current	407	A
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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	1,83	2,27	3,60	5,83	8,37	10,1	13,0	19,8	24,7	28,1	32,1	38,3	58,1	60,0	78,3	94,7
1,05	1,81	2,25	3,56	5,75	7,44	8,87	11,8	17,1	20,0	22,5	25,4	31,0	45,0	50,0	64,3	78,3
1,1	1,78	2,21	3,50	5,19	6,64	7,86	9,84	13,8	16,2	17,6	20,0	23,1	36,0	40,0	51,4	62,1
1,14	1,74	2,16	3,38	4,49	5,54	6,57	7,89	10,2	11,8	13,0	15,3	18,8	29,0	32,7	40,9	50,0

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