



MC185P - Cell data sheet

Classification

Brand	Alcad
Cell type	MC185P
Cell P/N	310450151
Capacity at 5 hours rate	185 Ah
IEC Designation	KM185P
According to IEC 60623	



Wiring principle

Normal



Physical data

Overall height	357 mm		
Cell height	349 mm		
Width	192 mm	Weight per cell	11,0 Kg
Length	93 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	
Terminal size	M10 SW 16 mm		
		Handle	No

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	2,9 liters		

Connection

Cable area of internal connection cables	95 mm ²	End-lug (and external cable)	95 mm ²
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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	0,42 mOhm	Short circuit current	3149 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	18,8	23,3	37,0	60,6	88,5	110	155	212	246	268	306	364	499	565	686	732
1,05	18,6	23,1	36,7	59,8	83,0	106	140	180	212	231	258	302	429	485	585	626
1,1	18,3	22,8	36,2	55,7	77,5	93,7	114	144	176	184	210	255	361	407	484	559
1,14	17,9	22,2	34,8	52,4	66,7	75,9	87,4	108	122	133	153	192	271	304	355	367
1,16	17,4	21,3	32,0	48,5	56,1	60,0	72,7	91,9	105	110	123	154	228	257	291	310

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	22,4	27,6	43,2	67,7	94,3	115	160	215	249	270	307	364	499	565	686	732
1,05	22,2	27,4	43,0	66,9	91,1	115	150	191	224	244	271	317	450	509	615	657
1,1	21,9	27,0	42,5	63,8	87,6	105	127	159	194	203	232	281	397	448	533	615
1,14	21,4	26,4	41,0	60,9	77,1	87,4	100	123	140	152	175	219	309	347	404	418
1,16	20,8	25,4	37,8	56,9	65,5	70,0	84,7	107	121	128	143	178	264	298	338	360



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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	3,05	2,09	1,68	1,19	0,87	0,75	0,69	0,60	0,51	0,37	0,33	0,27	0,25
1,05	9,9	8,00	5,04	3,10	2,23	1,74	1,32	1,03	0,87	0,80	0,72	0,61	0,43	0,38	0,32	0,30
1,1	10,1	8,12	5,12	3,32	2,39	1,97	1,62	1,29	1,05	1,00	0,88	0,72	0,51	0,45	0,38	0,33
1,14	10,3	8,33	5,32	3,53	2,77	2,44	2,12	1,72	1,51	1,39	1,21	0,96	0,68	0,61	0,52	0,50
1,16	10,6	8,67	5,78	3,82	3,30	3,08	2,54	2,01	1,77	1,68	1,50	1,20	0,81	0,72	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	8,26	6,72	4,28	2,73	1,96	1,61	1,16	0,86	0,74	0,69	0,60	0,51	0,37	0,33	0,27	0,25
1,05	8,32	6,75	4,30	2,77	2,03	1,61	1,23	0,97	0,82	0,76	0,68	0,58	0,41	0,36	0,30	0,28
1,1	8,45	6,85	4,35	2,90	2,11	1,76	1,46	1,16	0,95	0,91	0,80	0,66	0,47	0,41	0,35	0,30
1,14	8,66	7,01	4,51	3,04	2,40	2,12	1,84	1,50	1,32	1,22	1,06	0,84	0,60	0,53	0,46	0,44
1,16	8,90	7,29	4,89	3,25	2,82	2,64	2,19	1,73	1,52	1,45	1,29	1,04	0,70	0,62	0,55	0,51