



MC165P - Cell data sheet

Classification

Brand	Alcad
Cell type	MC165P
Cell P/N	310450051
Capacity at 5 hours rate	165 Ah
IEC Designation	KM165P
According to IEC 60623	



Wiring principle

Normal



Physical data

Overall height	357 mm		
Cell height	349 mm		
Width	192 mm	Weight per cell	10,6 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	3,1 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	0,47 mOhm	Short circuit current	2809 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	16,8	20,8	33,0	54,1	79,0	98,0	138	189	220	239	273	325	445	504	612	653
1,05	16,6	20,6	32,7	53,3	74,1	94,6	125	161	189	206	230	269	383	432	522	558
1,1	16,4	20,3	32,2	49,7	69,1	83,6	102	128	157	164	188	228	322	363	432	498
1,14	16,0	19,8	31,0	46,7	59,5	67,7	78,0	95,9	109	119	137	172	242	272	316	327
1,16	15,5	19,0	28,6	43,2	50,0	53,5	64,9	82,0	93,3	98,0	110	137	203	229	259	277

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	20,0	24,6	38,5	60,4	84,1	103	143	192	222	240	274	325	445	504	612	653
1,05	19,8	24,4	38,4	59,7	81,3	103	134	170	200	217	242	283	402	454	548	586
1,1	19,5	24,1	37,9	56,9	78,1	93,8	113	142	173	181	207	250	354	399	475	548
1,14	19,1	23,5	36,6	54,3	68,7	78,0	89,5	110	125	136	156	196	276	310	361	373
1,16	18,6	22,6	33,7	50,7	58,4	62,4	75,5	95,3	108	114	127	159	236	266	301	321



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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