



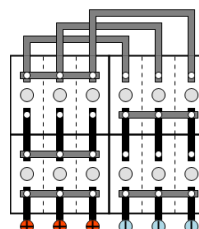
MB720P - Cell data sheet

Classification

Brand	Alcad
Cell type	MB720P
Cell P/N	311036481
Capacity at 5 hours rate	720 Ah
IEC Designation	KM720P
According to IEC 60623	



Wiring principle



Crosswise

Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	37,0 Kg
Length	268 mm		

Construction

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

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	8,9 liters		

Connection

Cable area of internal connection cables	120 mm ²	End-lug (and external cable)	120 mm ²
--	---------------------	------------------------------	---------------------



MB720P - Cell data sheet

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	0,11 mOhm	Short circuit current	12257 A
---------------------	-----------	-----------------------	---------

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	73,1	90,7	144	236	344	428	604	825	959	1.043	1.191	1.416	1.941	2.200	2.672	2.850
1,05	72,6	90,1	143	233	323	413	544	701	827	899	1.003	1.174	1.669	1.887	2.278	2.435
1,1	71,3	88,6	141	217	302	365	444	559	684	717	819	993	1.404	1.584	1.884	2.175
1,14	69,6	86,4	135	204	260	295	340	419	476	519	597	749	1.056	1.185	1.380	1.427
1,16	67,7	83,0	125	189	218	234	283	358	407	428	479	598	886	999	1.132	1.208

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	87,1	107	168	264	367	448	623	837	967	1.049	1.195	1.416	1.941	2.200	2.672	2.850
1,05	86,6	107	167	260	355	448	584	743	873	948	1.056	1.233	1.753	1.981	2.393	2.557
1,1	85,2	105	165	248	341	409	494	618	755	791	901	1.093	1.545	1.743	2.073	2.392
1,14	83,2	103	160	237	300	340	390	479	544	592	681	854	1.204	1.351	1.573	1.627
1,16	80,9	98,8	147	221	255	272	329	416	473	496	556	694	1.028	1.159	1.314	1.402



MB720P - Cell data sheet

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