



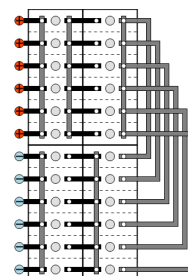
MB1320P - Cell data sheet

Classification

Brand	Alcad
Cell type	MB1320P
Cell P/N	311037581
Capacity at 5 hours rate	1.320 Ah
IEC Designation	KM1320P
According to IEC 60623	



Wiring principle



Crosswise

Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	71,0 Kg
Length	523 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	6
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	18,8 liters		

Connection

Cable area of internal connection cables	120 mm²	End-lug (and external cable)	120 mm²
--	---------	------------------------------	---------



MB1320P - 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	0,07 mOhm	Short circuit current	20738 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	134	166	264	431	631	785	1.107	1.506	1.745	1.887	2.152	2.535	3.421	3.818	4.558	4.823
1,05	133	165	262	427	593	757	998	1.276	1.504	1.639	1.792	2.076	2.905	3.266	3.848	4.144
1,1	131	163	257	399	553	668	813	1.015	1.235	1.284	1.467	1.758	2.451	2.733	3.225	3.426
1,14	127	158	249	375	483	557	654	796	912	988	1.133	1.414	1.977	2.191	2.533	2.610
1,16	124	152	229	347	406	440	544	680	780	815	910	1.129	1.658	1.846	2.078	2.210

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	160	196	308	482	672	823	1.142	1.527	1.760	1.898	2.159	2.535	3.421	3.818	4.558	4.823
1,05	159	195	306	477	650	821	1.071	1.353	1.589	1.728	1.885	2.180	3.051	3.429	4.042	4.352
1,1	156	193	302	456	624	750	906	1.124	1.364	1.416	1.615	1.934	2.696	3.007	3.548	3.769
1,14	152	188	293	436	558	641	751	910	1.042	1.127	1.293	1.613	2.254	2.498	2.888	2.976
1,16	148	181	270	407	475	514	634	791	905	945	1.056	1.310	1.924	2.142	2.411	2.563



MB1320P - 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	3,06	2,09	1,68	1,19	0,88	0,76	0,70	0,61	0,52	0,39	0,35	0,29	0,27
1,05	9,9	8,00	5,05	3,09	2,23	1,74	1,32	1,03	0,88	0,81	0,74	0,64	0,45	0,40	0,34	0,32
1,1	10,1	8,12	5,14	3,31	2,39	1,98	1,62	1,30	1,07	1,03	0,90	0,75	0,54	0,48	0,41	0,39
1,14	10,4	8,36	5,31	3,52	2,73	2,37	2,02	1,66	1,45	1,34	1,16	0,93	0,67	0,60	0,52	0,51
1,16	10,7	8,70	5,77	3,80	3,25	3,00	2,42	1,94	1,69	1,62	1,45	1,17	0,80	0,71	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	8,24	6,72	4,28	2,74	1,96	1,60	1,16	0,86	0,75	0,70	0,61	0,52	0,39	0,35	0,29	0,27
1,05	8,31	6,75	4,31	2,76	2,03	1,61	1,23	0,98	0,83	0,76	0,70	0,61	0,43	0,38	0,33	0,30
1,1	8,45	6,84	4,37	2,89	2,11	1,76	1,46	1,17	0,97	0,93	0,82	0,68	0,49	0,44	0,37	0,35
1,14	8,68	7,03	4,50	3,03	2,36	2,06	1,76	1,45	1,27	1,17	1,02	0,82	0,59	0,53	0,46	0,44
1,16	8,92	7,31	4,88	3,24	2,78	2,57	2,08	1,67	1,46	1,40	1,25	1,01	0,69	0,62	0,55	0,52