



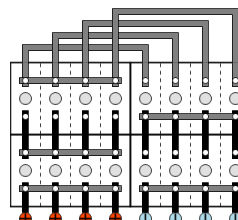
# MB920P - Cell data sheet

## Classification

Brand	Alcad
Cell type	MB920P
Cell P/N	310100381
Capacity at 5 hours rate	920 Ah
IEC Designation	KM920P
According to	IEC 60623



Wiring principle



Crosswise

## Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	49,2 Kg
Length	353 mm		

## Construction

Container material	Polypropylene	No. of terminals/polarity	4
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	11,8 liters		

## Connection

Cable area of internal connection cables	120 mm <sup>2</sup>	End-lug (and external cable)	120 mm <sup>2</sup>
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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	0,09 mOhm	Short circuit current	14454 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	93,6	116	184	301	440	547	772	1.050	1.216	1.315	1.500	1.767	2.384	2.661	3.177	3.361
1,05	92,8	115	182	297	413	527	696	889	1.048	1.142	1.249	1.447	2.025	2.276	2.682	2.889
1,1	91,2	113	179	278	385	466	567	708	861	895	1.022	1.226	1.708	1.905	2.248	2.388
1,14	88,7	110	173	261	337	388	456	555	636	688	790	986	1.378	1.527	1.765	1.819
1,16	86,3	106	160	242	283	307	379	474	543	568	634	787	1.156	1.287	1.448	1.540

### 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	112	137	215	336	468	573	796	1.065	1.227	1.323	1.504	1.767	2.384	2.661	3.177	3.361
1,05	111	136	214	333	453	572	746	943	1.107	1.204	1.314	1.520	2.126	2.390	2.817	3.033
1,1	109	135	211	318	435	523	631	783	951	987	1.126	1.348	1.879	2.096	2.473	2.627
1,14	106	131	204	304	389	447	523	634	726	786	901	1.124	1.571	1.741	2.013	2.074
1,16	103	126	188	284	331	358	442	551	631	659	736	913	1.341	1.493	1.680	1.786



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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	3,06	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