



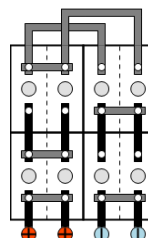
# LBE500P - Cell data sheet

## Classification

Brand	Alcad
Cell type	LBE500P
Cell P/N	311032181
Capacity at 5 hours rate	500 Ah
IEC Designation	KL500P
According to	IEC 60623



Wiring principle



Crosswise

## Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	21,8 Kg
Length	171 mm		

## Construction

Container material	Polypropylene	No. of terminals/polarity	2
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	5,6 liters		

## Connection

Cable area of internal connection cables	70 mm <sup>2</sup>	End-lug (and external cable)	50 mm <sup>2</sup>
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## Charging

Float voltage	1,42 V/Cell	High rate voltage (min)	1,47 V/Cell
Single-level voltage	1,43 V/Cell		

## Resistance/Short circuit

Internal resistance	0,33 mOhm	Short circuit current	4159 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	51,5	63,7	100	160	214	257	329	425	476	511	550	630	700	750	900	967
1,05	51,1	63,5	98,9	155	193	221	276	359	397	412	457	522	563	615	739	802
1,1	50,0	61,3	94,1	130	164	189	223	280	302	331	365	383	459	500	609	667
1,14	48,9	57,6	82,8	113	136	150	173	221	237	246	277	322	374	409	509	563
1,16	45,9	52,6	71,7	97,1	116	125	142	186	207	224	245	293	341	373	464	514

### 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	59,7	72,8	112	171	223	266	337	429	479	514	551	630	700	750	900	967
1,05	59,5	73,2	112	171	210	237	294	380	419	434	481	548	591	646	776	842
1,1	58,4	71,3	109	148	184	211	247	309	333	365	402	421	505	550	670	734
1,14	57,4	67,5	96,8	131	156	172	198	253	271	281	316	367	426	466	580	642
1,16	53,9	61,8	84,2	113	135	146	165	216	240	260	285	340	396	432	538	596



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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	9,7	7,85	5,00	3,12	2,34	1,95	1,52	1,18	1,05	0,98	0,91	0,79	0,71	0,67	0,56	0,52
1,05	9,8	7,88	5,05	3,23	2,58	2,26	1,81	1,39	1,26	1,21	1,09	0,96	0,89	0,81	0,68	0,62
1,1	10,0	8,16	5,31	3,83	3,05	2,65	2,25	1,79	1,66	1,51	1,37	1,31	1,09	1,00	0,82	0,75
1,14	10,2	8,68	6,04	4,42	3,69	3,33	2,89	2,26	2,11	2,03	1,81	1,55	1,34	1,22	0,98	0,89
1,16	10,9	9,5	6,98	5,15	4,32	3,99	3,52	2,69	2,41	2,23	2,04	1,70	1,47	1,34	1,08	0,97

### 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	8,38	6,87	4,47	2,92	2,24	1,88	1,49	1,17	1,04	0,97	0,91	0,79	0,71	0,67	0,56	0,52
1,05	8,41	6,83	4,45	2,93	2,38	2,11	1,70	1,32	1,19	1,15	1,04	0,91	0,85	0,77	0,64	0,59
1,1	8,55	7,01	4,60	3,39	2,72	2,37	2,02	1,62	1,50	1,37	1,24	1,19	0,99	0,91	0,75	0,68
1,14	8,71	7,41	5,17	3,82	3,20	2,90	2,52	1,98	1,85	1,78	1,58	1,36	1,17	1,07	0,86	0,78
1,16	9,27	8,09	5,94	4,41	3,71	3,43	3,03	2,31	2,08	1,93	1,76	1,47	1,26	1,16	0,93	0,84