



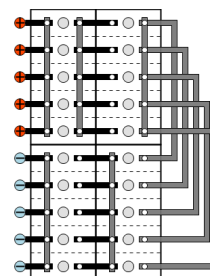
# LBE1250P - Cell data sheet

## Classification

Brand	Alcad
Cell type	LBE1250P
Cell P/N	311032881
Capacity at 5 hours rate	1.250 Ah
IEC Designation	KL1250P
According to	IEC 60623



Wiring principle



Crosswise

## Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	52,4 Kg
Length	402 mm		

## Construction

Container material	Polypropylene	No. of terminals/polarity	5
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	13,6 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	0,13 mOhm	Short circuit current	10399 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	129	159	250	400	534	643	823	1.062	1.191	1.279	1.374	1.576	1.750	1.875	2.250	2.418
1,05	128	159	247	388	484	552	689	898	992	1.030	1.143	1.305	1.408	1.538	1.848	2.005
1,1	125	153	235	326	410	472	557	699	755	828	912	958	1.147	1.250	1.522	1.668
1,14	122	144	207	283	339	376	433	553	593	615	692	804	935	1.022	1.272	1.408
1,16	115	131	179	243	289	313	355	465	518	559	613	734	853	932	1.160	1.284

### 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	149	182	280	428	558	664	842	1.072	1.198	1.284	1.377	1.576	1.750	1.875	2.250	2.418
1,05	149	183	281	427	524	593	734	949	1.046	1.084	1.202	1.371	1.478	1.615	1.940	2.106
1,1	146	178	272	369	459	526	618	772	833	913	1.004	1.053	1.261	1.375	1.674	1.836
1,14	143	169	242	327	390	431	496	632	676	702	789	917	1.066	1.165	1.450	1.605
1,16	135	154	211	284	337	364	413	540	601	649	711	851	989	1.081	1.346	1.489



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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