



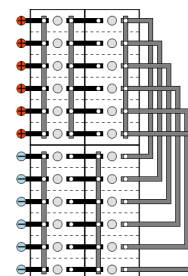
LBE1600P - Cell data sheet

Classification

Brand	Alcad
Cell type	LBE1600P
Cell P/N	310548681
Capacity at 5 hours rate	1.600 Ah
IEC Designation	KL1600P
According to IEC 60623	



Wiring principle



Crosswise

Physical data

Overall height	410 mm	Weight per cell	68,1 Kg
Cell height	400 mm		
Width	195 mm		
Length	511 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	17,4 liters		

Connection

Cable area of internal connection cables	70 mm ²	End-lug (and external cable)	50 mm ²
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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	0,10 mOhm	Short circuit current	13310 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	165	204	320	512	683	823	1.054	1.359	1.524	1.637	1.759	2.017	2.240	2.400	2.880	3.095
1,05	163	203	317	496	619	706	882	1.149	1.270	1.318	1.464	1.671	1.802	1.969	2.365	2.567
1,1	160	196	301	417	524	604	713	895	967	1.060	1.167	1.226	1.468	1.600	1.948	2.136
1,14	157	184	265	362	434	481	554	708	759	787	885	1.030	1.197	1.308	1.628	1.802
1,16	147	168	229	311	370	401	455	596	663	716	785	939	1.091	1.193	1.485	1.643

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	191	233	358	548	715	851	1.077	1.373	1.533	1.643	1.763	2.017	2.240	2.400	2.880	3.095
1,05	190	234	360	546	671	759	940	1.215	1.339	1.388	1.539	1.754	1.892	2.067	2.484	2.695
1,1	187	228	348	473	588	674	791	989	1.066	1.168	1.285	1.348	1.615	1.760	2.143	2.349
1,14	184	216	310	418	499	552	635	809	866	898	1.010	1.174	1.364	1.491	1.856	2.054
1,16	173	198	270	363	432	467	529	692	769	831	910	1.089	1.266	1.384	1.722	1.906



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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