



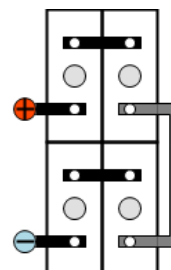
## LCE255P - Cell data sheet

### Classification

Brand	Alcad
Cell type	LCE255P
Cell P/N	311034151
Capacity at 5 hours rate	255 Ah
IEC Designation	KL255P
According to	IEC 60623



Wiring principle Normal



### Physical data

Overall height	413 mm		
Cell height	405 mm		
Width	192 mm	Weight per cell	12,3 Kg
Length	93 mm		

### Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	
Terminal size	M10 SW 16 mm	Handle	No

### 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	3,4 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	0,65 mOhm	Short circuit current	2121 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	26,3	32,5	51,0	81,6	109	131	168	217	243	261	280	322	357	382	459	493
1,05	26,0	32,4	50,4	79,0	98,7	113	141	183	202	210	233	266	287	314	377	409
1,1	25,5	31,3	48,0	66,5	83,5	96,2	114	143	154	169	186	195	234	255	310	340
1,14	25,0	29,4	42,2	57,6	69,2	76,6	88,3	113	121	125	141	164	191	208	259	287
1,16	23,4	26,8	36,6	49,5	59,0	63,8	72,5	94,9	106	114	125	150	174	190	237	262

### 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	30,4	37,1	57,0	87,3	114	136	172	219	244	262	281	322	357	382	459	493
1,05	30,3	37,3	57,3	87,0	107	121	150	194	213	221	245	280	302	329	396	430
1,1	29,8	36,4	55,4	75,3	93,6	107	126	158	170	186	205	215	257	281	342	374
1,14	29,3	34,4	49,4	66,7	79,6	88,0	101	129	138	143	161	187	217	238	296	327
1,16	27,5	31,5	43,0	57,9	68,8	74,4	84,3	110	123	132	145	174	202	221	274	304

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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

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