



LCE300P - Cell data sheet

Classification

Brand	Alcad		Wiring principle	Normal
Cell type	LCE300P			
Cell P/N	311034251			
Capacity at 5 hours rate	300 Ah			
IEC Designation	KL300P			
According to IEC 60623				

Wiring principle

Normal

Physical data

Overall height	413 mm			
Cell height	405 mm			
Width	196 mm			
Length	126 mm			
		Weight per cell	15,9 Kg	

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	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	4,8 liters		

Connection

Cable area of internal connection cables	35 mm ²	End-lug (and external cable)	25 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	0,55 mOhm	Short circuit current	2496 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	30,9	38,2	60,0	96,0	128	154	198	255	286	307	330	378	420	450	540	580
1,05	30,6	38,1	59,4	93,0	116	132	165	216	238	247	274	313	338	369	443	481
1,1	30,0	36,8	56,5	78,3	98,3	113	134	168	181	199	219	230	275	300	365	400
1,14	29,4	34,6	49,7	67,8	81,4	90,1	104	133	142	148	166	193	224	245	305	338
1,16	27,5	31,5	43,0	58,2	69,4	75,1	85,2	112	124	134	147	176	205	224	278	308

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	35,8	43,7	67,1	103	134	159	202	257	287	308	331	378	420	450	540	580
1,05	35,7	43,9	67,4	102	126	142	176	228	251	260	289	329	355	388	466	505
1,1	35,1	42,8	65,2	88,6	110	126	148	185	200	219	241	253	303	330	402	441
1,14	34,4	40,5	58,1	78,5	93,6	103	119	152	162	168	189	220	256	280	348	385
1,16	32,4	37,1	50,6	68,1	81,0	87,5	99,1	130	144	156	171	204	237	259	323	357



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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