



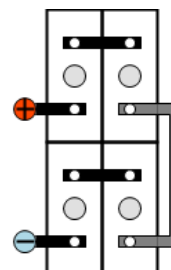
LCE110P - Cell data sheet

Classification

Brand	Alcad
Cell type	LCE110P
Cell P/N	310549751
Capacity at 5 hours rate	110 Ah
IEC Designation	KL110P
According to	IEC 60623



Wiring principle Normal



Physical data

Overall height	357 mm		
Cell height	349 mm		
Width	192 mm	Weight per cell	6,8 Kg
Length	68 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	2,4 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	1,45 mOhm	Short circuit current	1078 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	11,1	13,9	22,0	35,2	47,8	58,0	74,7	95,5	108	114	121	145	166	177	226	251
1,05	11,0	13,8	21,6	34,5	42,2	49,6	61,5	80,8	91,8	98,1	106	115	133	147	186	205
1,1	10,9	13,4	20,5	29,3	37,0	43,5	50,9	65,2	71,8	72,9	80,3	94,7	108	120	151	169
1,14	10,6	12,4	18,0	25,2	31,2	34,8	39,9	50,4	57,4	57,6	65,8	70,9	88,0	97,4	125	141
1,16	9,9	11,3	15,6	21,7	26,6	29,0	32,7	42,3	50,1	52,4	58,3	64,6	80,3	88,8	114	128

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	12,9	15,9	24,6	37,7	50,0	60,0	76,4	96,4	108	115	121	145	166	177	226	251
1,05	12,8	15,9	24,5	38,0	45,8	53,4	65,6	85,4	96,8	103	112	120	140	154	196	216
1,1	12,7	15,5	23,7	33,2	41,5	48,5	56,5	72,0	79,2	80,3	88,4	104	118	132	166	186
1,14	12,4	14,5	21,1	29,2	35,9	40,0	45,7	57,5	65,5	65,7	75,0	80,8	100	111	142	161
1,16	11,6	13,3	18,4	25,4	31,0	33,8	38,1	49,2	58,2	60,8	67,6	75,0	93,1	103	132	149



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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	9,9	7,92	5,00	3,12	2,30	1,90	1,47	1,15	1,02	0,96	0,91	0,76	0,66	0,62	0,49	0,44
1,05	10,0	8,00	5,10	3,19	2,60	2,22	1,79	1,36	1,20	1,12	1,03	0,96	0,83	0,75	0,59	0,54
1,1	10,1	8,24	5,36	3,75	2,97	2,53	2,16	1,69	1,53	1,51	1,37	1,16	1,02	0,91	0,73	0,65
1,14	10,4	8,87	6,10	4,36	3,53	3,16	2,76	2,18	1,92	1,91	1,67	1,55	1,25	1,13	0,88	0,78
1,16	11,1	9,7	7,03	5,07	4,13	3,79	3,36	2,60	2,19	2,10	1,89	1,70	1,37	1,24	0,97	0,86

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	8,54	6,93	4,47	2,92	2,20	1,83	1,44	1,14	1,02	0,96	0,91	0,76	0,66	0,62	0,49	0,44
1,05	8,59	6,94	4,49	2,90	2,40	2,06	1,68	1,29	1,14	1,07	0,98	0,91	0,79	0,71	0,56	0,51
1,1	8,63	7,09	4,64	3,31	2,65	2,27	1,95	1,53	1,39	1,37	1,24	1,06	0,93	0,83	0,66	0,59
1,14	8,88	7,57	5,22	3,77	3,06	2,75	2,41	1,91	1,68	1,67	1,47	1,36	1,10	0,99	0,77	0,69
1,16	9,45	8,27	5,98	4,34	3,54	3,26	2,89	2,24	1,89	1,81	1,63	1,47	1,18	1,07	0,83	0,74