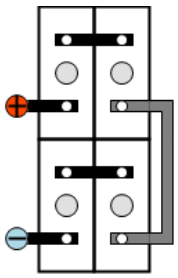
LCE145P - Cell data sheet

Classification

Brand	Alcad
Cell type	LCE145P
Cell P/N	310549851
Capacity at 5 hours rate	145 Ah
IEC Designation	KL145P
According to IEC 60623	

Wiring principle Normal



Physical data

Overall height	361 mm		
Cell height	361 mm		
Width	196 mm	Weight per cell	7,4 Kg
Length	72 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	25 cm3
Electrolyte per cell: Liquid	2,0 liters		

Connection

Cable area of internal connection cables	35 mm²	End-lug (and external cable)	25 mm²

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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	1,10 mOhm	Short circuit current	1422 A

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	14,6	18,3	29,0	46,4	63,0	76,5	98,5	126	142	151	159	191	218	234	298	331
1,05	14,5	18,1	28,4	45,4	55,7	65,4	81,1	106	121	129	140	151	175	193	246	271
1,1	14,4	17,6	27,1	38,7	48,8	57,3	67,1	85,9	94,7	96,1	106	125	142	159	199	222
1,14	13,9	16,4	23,8	33,2	41,1	45,9	52,6	66,4	75,6	75,9	86,7	93,4	116	128	165	186
1,16	13,1	14,9	20,6	28,6	35,1	38,2	43,2	55,8	66,1	69,0	76,8	85,2	106	117	150	169

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	17,0	20,9	32,4	49,6	65,9	79,1	101	127	143	151	160	191	218	234	298	331
1,05	16,9	20,9	32,3	50,0	60,3	70,3	86,5	113	128	136	147	159	184	203	258	284
1,1	16,8	20,5	31,2	43,8	54,8	64,0	74,5	94,9	104	106	116	137	156	175	219	245
1,14	16,3	19,2	27,8	38,5	47,3	52,7	60,2	75,8	86,3	86,6	98,9	106	132	146	188	212
1,16	15,4	17,5	24,2	33,4	40,9	44,5	50,2	64,8	76,7	80,1	89,2	98,8	123	136	174	196

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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

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