



## LCE85P - Cell data sheet

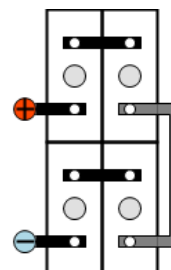
### Classification

Brand	Alcad
Cell type	LCE85P
Cell P/N	311033651
Capacity at 5 hours rate	85 Ah
IEC Designation	KL85P
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	16 mm <sup>2</sup>	End-lug (and external cable)	16 mm <sup>2</sup>
--	--------------------	------------------------------	--------------------

ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.

Visit our website at [www.alcad.com](http://www.alcad.com)

380603 00000000-0000-0000-0000-000000000000 Version: 3.5, Last updated on 01/2024, Referential data  
5/13/2024



## LCE85P - Cell data sheet

### 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	1,88 mOhm	Short circuit current	833 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	8,59	10,7	17,0	27,2	36,9	44,8	57,7	73,8	83,2	88,4	93,3	112	128	137	175	194
1,05	8,50	10,6	16,7	26,6	32,6	38,4	47,6	62,4	71,0	75,8	82,2	88,6	103	113	144	159
1,1	8,42	10,3	15,9	22,7	28,6	33,6	39,3	50,4	55,5	56,3	62,0	73,2	83,2	93,0	117	130
1,14	8,16	9,6	13,9	19,5	24,1	26,9	30,8	38,9	44,3	44,5	50,8	54,8	68,0	75,2	96,4	109
1,16	7,66	8,75	12,1	16,8	20,6	22,4	25,3	32,7	38,7	40,5	45,0	49,9	62,0	68,6	88,0	99,2

#### 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	10,0	12,3	19,0	29,1	38,6	46,4	59,0	74,5	83,7	88,8	93,5	112	128	137	175	194
1,05	9,9	12,2	18,9	29,3	35,4	41,2	50,7	66,0	74,8	79,8	86,4	93,1	108	119	151	167
1,1	9,8	12,0	18,3	25,7	32,1	37,5	43,6	55,6	61,2	62,1	68,3	80,5	91,5	102	128	143
1,14	9,6	11,2	16,3	22,6	27,7	30,9	35,3	44,5	50,6	50,8	58,0	62,4	77,5	85,8	110	124
1,16	9,00	10,3	14,2	19,6	24,0	26,1	29,4	38,0	45,0	47,0	52,3	57,9	72,0	79,6	102	115

ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.

Visit our website at [www.alcad.com](http://www.alcad.com)

380603 00000000-0000-0000-0000-000000000000 Version: 3.5, Last updated on 01/2024, Referential data  
5/13/2024



# LCE85P - Cell data sheet

## 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

ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.

Visit our website at [www.alcad.com](http://www.alcad.com)