



## LD40P - Cell data sheet

### Classification

Brand	Alcad
Cell type	LD40P
Cell P/N	89-27108-14
Capacity at 5 hours rate	40 Ah
IEC Designation	KL40P
According to IEC 60623	



### Physical data

Overall height	236 mm		
Width	122 mm	Weight per cell	1,9 Kg
Length	45 mm	Block length - 2 cells	
Block length - 3 cells		Block length - 4 cells	
Block length - 5 cells		Block length - 6 cells	
Block length - 7 cells		Block length - 8 cells	
Block length - 9 cells		Block length - 10 cells	

### Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	11,0 +/- 1,1 Nm	Vent type	flame arresting vent
Terminal size	M6		

### Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket

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### Electrolyte

Electrolyte type: Renewal	E13	Max/Min	40 mm
Electrolyte type: Initial	E22	Vent oil quantity	20 cm <sup>3</sup>
Electrolyte per cell: Liquid	0,4 liters		

### Connection

Cable area	10 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	3,60 mOhm	Short circuit current	309 A
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### Performance data

#### Stationary performance

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
<b>1</b>	4,06	5,04	8,00	12,8	17,1	20,1	24,4	30,6	33,5	35,6	38,9	43,9	50,6	54,5	64,1	71,9
<b>1,05</b>	4,00	4,99	7,83	11,3	15,0	17,9	21,4	26,2	28,6	29,7	31,7	34,3	40,4	43,3	51,5	57,1
<b>1,1</b>	3,94	4,72	6,94	10,2	13,4	15,9	18,9	22,0	23,3	23,8	24,7	26,4	31,0	33,7	40,0	45,0
<b>1,14</b>	3,77	4,41	5,77	7,93	9,9	11,4	13,2	15,4	16,6	16,9	17,8	20,1	24,1	26,1	31,6	34,9

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