



## XHP52 - Cell data sheet

### Classification

Brand	Alcad
Cell type	XHP52
Cell P/N	210677
Capacity at 5 hours rate	52 Ah
IEC Designation	KH52P
According to IEC 60623	



### Physical data

Overall height	276 mm		
Width	86 mm	Weight per cell	2,8 Kg
Length	86 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	Microporous	Terminal material	Copper
Connection torque	10,0 +/- 2,0 Nm	Vent type	flame arresting vent
Terminal size	M10		

### Plates

Positive		Negative	
Type of plates	Sintered	Type of plates	Plastic bonded

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### Electrolyte

Electrolyte type: Renewal		Max/Min	55 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	0,7 liters		

### Connection

Cable area	50 mm <sup>2</sup>
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### Charging

Float voltage	1,4 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,41 V/Cell		

### Resistance/Short circuit

Internal resistance	0,77 mOhm	Short circuit current	2033 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>	5,32	6,60	10,4	17,2	25,6	34,0	50,0	98,1	141	168	217	248	306	347	433	473
<b>1,05</b>	5,27	6,54	10,3	17,1	25,5	33,6	49,5	94,6	130	153	179	208	260	289	371	400
<b>1,1</b>	5,21	6,46	10,2	16,8	24,8	32,5	46,8	82,5	106	121	141	162	217	248	306	347
<b>1,14</b>	5,13	6,37	10,0	16,0	23,5	30,4	40,6	71,2	86,7	98,1	113	130	173	200	260	289

#### Engine starting performance

For a fully charged cell by a constant current charge according to IEC 60623 standard at +20°C +/- 5°C (+68°F +/- 9°F), 30 seconds discharge down to 0,85 V

Available amperes	588 A
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