



## XHP90 - Cell data sheet

### Classification

Brand	Alcad
Cell type	XHP90
Cell P/N	210681
Capacity at 5 hours rate	90 Ah
IEC Designation	KH90P
According to IEC 60623	



### Physical data

Overall height	339 mm		
Width	166 mm	Weight per cell	5,8 kg
Length	78 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	15,0 +/- 2,0 Nm	Vent type	Flame arresting vent
Terminal size	M12		

### Plates

Positive		Negative	
Type of plates	Sintered	Type of plates	Plastic bonded

### Electrolyte

Electrolyte type: Renewal		Max/Min	60 mm
Electrolyte type: Initial	E4	Vent oil quantity	0 cm <sup>3</sup>
Electrolyte per cell: Liquid	1,6 liters		

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### Connection

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Cable area 95 mm<sup>2</sup>

### Charging

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Float voltage	1,40 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,41 V/Cell		

### Resistance/Short circuit

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Internal resistance	0,44 mOhm	Short circuit current	3225 A
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### Performance data

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#### 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>1,00</b>	9,20	11,4	18,0	29,8	44,3	58,8	86,5	164	231	265	321	375	500	562	692	750
<b>1,05</b>	9,12	11,3	17,9	29,6	44,1	58,1	85,7	158	200	231	265	310	429	500	600	643
<b>1,10</b>	9,01	11,2	17,6	29,0	42,9	56,2	81,1	127	155	173	200	243	346	409	500	529
<b>1,14</b>	8,88	11,0	17,4	27,8	40,7	52,6	70,3	100	120	134	158	191	290	346	429	474

#### 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 997 A

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