



# XHP280 - Cell data sheet

## Classification

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Brand	Alcad
Cell type	XHP280
Cell P/N	212425
Capacity at 5 hours rate	280 Ah
IEC Designation	KH280P
According to IEC 60623	



## Physical data

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Overall height	339 mm	Weight per cell	15,7 Kg
Width	165 mm	Block length - 2 cells	
Length	198 mm	Block length - 4 cells	
Block length - 3 cells		Block length - 6 cells	
Block length - 5 cells		Block length - 8 cells	
Block length - 7 cells		Block length - 10 cells	
Block length - 9 cells			

## Construction

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Container material	Polypropylene	No. of terminals/polarity	2
Separator type	Microporous	Terminal material	Copper
Connection torque	15,0 +/- 2,0 Nm	Vent type	flame arresting vent
Terminal size	M12		

## Plates

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Positive		Negative	
Type of plates	Sintered	Type of plates	Plastic bonded

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### Electrolyte

Electrolyte type: Renewal		Max/Min	65 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	4,2 liters		

### Connection

Cable area	185 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	0,14 mOhm	Short circuit current	10033 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
1	28,6	35,5	56,0	92,7	138	183	269	509	718	824	1 000	1 167	1 556	1 750	2 154	2 333
1,05	28,4	35,2	55,6	92,1	137	181	267	491	636	718	824	966	1 333	1 556	1 867	2 000
1,1	28,0	34,8	54,9	90,3	133	175	252	394	483	538	622	757	1 077	1 273	1 556	1 647
1,14	27,6	34,3	54,0	86,4	127	164	219	311	373	424	491	596	903	1 077	1 333	1 474

#### 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	3 000 A
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