



XHP190 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP190
Cell P/N	210687
Capacity at 5 hours rate	190 Ah
IEC Designation	KH190P
According to IEC 60623	



Physical data

Overall height	339 mm		
Width	166 mm	Weight per cell	10,0 Kg
Length	117 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	2
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

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

Version: 1.4, Last updated on 01/2015

P 1/2



XHP190 - Cell data sheet

Electrolyte

Electrolyte type: Renewal		Max/Min	60 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	2,1 liters		

Connection

Cable area	185 mm ²
------------	---------------------

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	0,21 mOhm	Short circuit current	6808 A
---------------------	-----------	-----------------------	--------

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	19,4	24,1	38,0	62,9	93,6	124	183	345	487	559	679	792	1 056	1 188	1 462	1 583
1,05	19,2	23,9	37,7	62,5	93,1	123	181	333	432	487	559	655	905	1 056	1 267	1 357
1,1	19,0	23,6	37,2	61,3	90,5	119	171	268	328	365	422	514	731	864	1 056	1 118
1,14	18,8	23,3	36,7	58,6	86,0	111	148	211	253	288	333	404	613	731	905	1 000

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	2 100 A
-------------------	---------

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

Version: 1.4, Last updated on 01/2015

P 2/2