



XHP80 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP80
Cell P/N	210680
Capacity at 5 hours rate	80 Ah
IEC Designation	KH80P
According to IEC 60623	



Physical data

Overall height	306 mm		
Width	86 mm	Weight per cell	3,5 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

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



XHP80 - Cell data sheet

Electrolyte

Electrolyte type: Renewal		Max/Min	70 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	0,7 liters		

Connection

Cable area	70 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	0,50 mOhm	Short circuit current	2457 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	8,18	10,2	16,0	26,5	39,4	52,3	76,9	148	211	250	296	333	400	444	533	571
1,05	8,11	10,1	15,9	26,3	39,2	51,6	76,2	145	190	222	250	276	348	381	444	500
1,1	8,01	9,9	15,7	25,8	38,1	50,0	72,1	123	154	170	190	216	276	308	381	421
1,14	7,90	9,8	15,4	24,7	36,2	46,8	62,5	104	121	133	151	167	229	258	320	348

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	905 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