



XHP220 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP220
Cell P/N	212423
Capacity at 5 hours rate	220 Ah
IEC Designation	KH220P
According to IEC 60623	



Physical data

Overall height	339 mm		
Width	165 mm	Weight per cell	14,7 Kg
Length	198 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

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Electrolyte

Electrolyte type: Renewal		Max/Min	65 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	4,8 liters		

Connection

Cable area	185 mm ²
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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	0,18 mOhm	Short circuit current	7883 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	22,5	27,9	44,0	72,8	108	144	212	400	564	647	786	917	1 222	1 375	1 692	1 833
1,05	22,3	27,7	43,6	72,4	108	142	210	386	500	564	647	759	1 048	1 222	1 467	1 571
1,1	22,0	27,3	43,1	71,0	105	138	198	310	379	423	489	595	846	1 000	1 222	1 294
1,14	21,7	27,0	42,5	67,9	100	129	172	244	293	333	386	468	710	846	1 048	1 158

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	2 390 A
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