



XHP320 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP320
Cell P/N	212427
Capacity at 5 hours rate	320 Ah
IEC Designation	KH320P
According to IEC 60623	



Physical data

Overall height	339 mm		
Width	165 mm	Weight per cell	16,4 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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Version: 1.4, Last updated on 01/2015

P 1/2



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Electrolyte

Electrolyte type: Renewal		Max/Min	65 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	3,8 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	0,13 mOhm	Short circuit current	11467 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	32,7	40,6	64,0	106	158	209	308	582	821	941	1 143	1 333	1 778	2 000	2 462	2 667
1,05	32,4	40,2	63,5	105	157	206	305	561	727	821	941	1 103	1 524	1 778	2 133	2 286
1,1	32,0	39,8	62,8	103	152	200	288	451	552	615	711	865	1 231	1 455	1 778	1 882
1,14	31,6	39,2	61,8	98,8	145	187	250	356	427	485	561	681	1 032	1 231	1 524	1 684

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	3 330 A
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