



XHP100 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP100
Cell P/N	210682
Capacity at 5 hours rate	100 Ah
IEC Designation	KH100P
According to IEC 60623	



Physical data

Overall height	339 mm		
Width	166 mm	Weight per cell	6,1 Kg
Length	78 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	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	60 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	1,5 liters		

Connection

Cable area	95 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	0,40 mOhm	Short circuit current	3583 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	10,2	12,7	20,0	33,1	49,3	65,4	96,2	182	256	294	357	417	556	625	769	833
1,05	10,1	12,6	19,8	32,9	49,0	64,5	95,2	175	227	256	294	345	476	556	667	714
1,1	10,0	12,4	19,6	32,3	47,6	62,5	90,1	141	172	192	222	270	385	455	556	588
1,14	9,9	12,2	19,3	30,9	45,2	58,5	78,1	111	133	152	175	213	323	385	476	526

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	1 110 A
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