



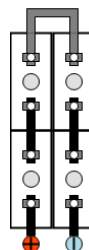
# XHP36 - Cell data sheet

## Classification

Brand	Alcad
Cell type	XHP36
Cell P/N	210675
Capacity at 5 hours rate	36 Ah
IEC Designation	KH36P
According to	IEC 60623



Wiring principle



Crosswise

## Physical data

Overall height	276 mm		
Cell height			
Width	86 mm	Weight per cell	2,6 Kg
Length	86 mm		

## 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 SW 16 mm	Handle	No

## Plates

Positive		Negative	
Type of plates	Sintered	Type of plates	Plastic bonded

## Electrolyte

Electrolyte type: Renewal		Max/Min	27 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	0,8 liters		

## Connection

Cable area of internal connection cables	50 mm <sup>2</sup>	End-lug (and external cable)	50 mm <sup>2</sup>
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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	1,11 mOhm	Short circuit current	1407 A
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## Performance data

### Current discharge

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	3,68	4,57	7,20	11,9	17,8	23,5	34,7	67,5	96,8	118	148	173	217	240	295	327
1,05	3,65	4,53	7,14	11,8	17,6	23,2	34,3	66,1	90,0	107	125	144	181	203	252	281
1,1	3,60	4,47	7,06	11,6	17,2	22,6	32,4	57,4	73,8	84,3	97,6	114	148	169	209	234
1,14	3,55	4,41	6,95	11,1	16,3	21,0	28,2	49,5	60,1	68,2	77,8	90,2	122	141	176	197

### 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	407 A
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### Power discharge

Available power (W), after prolonged float charged of fully charged cells 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	4,45	5,53	8,60	14,1	21,0	26,6	37,7	70,2	99,1	120	149	173	217	240	295	327
1,05	4,41	5,48	8,54	14,0	20,8	26,6	38,1	71,2	96,0	114	132	151	190	214	265	295
1,1	4,36	5,41	8,44	13,7	20,3	26,2	36,9	64,2	81,9	93,3	108	125	162	186	230	257
1,14	4,30	5,34	8,31	13,2	19,2	24,6	32,7	56,9	68,8	78,0	88,8	103	139	160	201	224

### 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	407 A
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## Kt Factor

### Current discharge

After prolonged float charge of fully charged cells. Kt factor 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	9,8	7,88	5,00	3,02	2,03	1,53	1,04	0,53	0,37	0,31	0,24	0,21	0,17	0,15	0,12	0,11
1,05	9,9	7,95	5,04	3,04	2,04	1,55	1,05	0,54	0,40	0,34	0,29	0,25	0,20	0,18	0,14	0,13
1,1	10,0	8,05	5,10	3,10	2,10	1,60	1,11	0,63	0,49	0,43	0,37	0,32	0,24	0,21	0,17	0,15
1,14	10,1	8,16	5,18	3,24	2,21	1,71	1,28	0,73	0,60	0,53	0,46	0,40	0,30	0,26	0,20	0,18

### 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 407 A

### Power discharge

Kt factor power, after prolonged float charged of fully charged cells 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	8,08	6,51	4,18	2,55	1,72	1,35	0,95	0,51	0,36	0,30	0,24	0,21	0,17	0,15	0,12	0,11
1,05	8,16	6,57	4,22	2,57	1,73	1,35	0,94	0,51	0,37	0,32	0,27	0,24	0,19	0,17	0,14	0,12
1,1	8,26	6,65	4,27	2,62	1,78	1,38	0,98	0,56	0,44	0,39	0,33	0,29	0,22	0,19	0,16	0,14
1,14	8,37	6,74	4,33	2,73	1,87	1,46	1,10	0,63	0,52	0,46	0,41	0,35	0,26	0,22	0,18	0,16

### Engine starting performance

Kt factor power, after prolonged float charged of fully charged cells at +20°C +/- 5°C (+68°F +/- 9°F)

Available amperes 407 A