



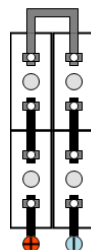
XHP70 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP70
Cell P/N	210679
Capacity at 5 hours rate	70 Ah
IEC Designation	KH70P
According to IEC 60623	



Wiring principle



Crosswise

Physical data

Overall height	306 mm		
Cell height			
Width	86 mm	Weight per cell	3,5 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	70 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	0,8 liters		

Connection

Cable area of internal connection cables	70 mm ²	End-lug (and external cable)	70 mm ²
--	--------------------	------------------------------	--------------------



XHP70 - Cell data sheet

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	0,57 mOhm	Short circuit current	2230 A
---------------------	-----------	-----------------------	--------

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	7,16	8,88	14,0	23,2	34,5	45,7	67,5	130	186	221	262	292	359	393	470	519
1,05	7,09	8,81	13,9	23,0	34,3	45,2	66,7	127	169	196	218	240	300	333	398	435
1,1	7,00	8,70	13,7	22,5	33,4	43,9	63,0	108	134	150	166	189	244	273	329	363
1,14	6,91	8,58	13,5	21,6	31,7	40,9	54,8	90,7	107	118	131	147	200	227	276	303

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	792 A
-------------------	-------

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	8,66	10,8	16,7	27,5	40,7	51,8	73,3	135	190	224	264	292	359	393	470	519
1,05	8,58	10,6	16,6	27,3	40,5	51,8	74,2	137	180	208	230	252	315	350	418	457
1,1	8,48	10,5	16,4	26,7	39,4	50,9	71,7	121	149	166	183	208	268	301	362	399
1,14	8,36	10,4	16,2	25,6	37,4	47,9	63,5	104	122	135	150	168	228	258	314	346

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	792 A
-------------------	-------



XHP70 - Cell data sheet

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	0,54	0,38	0,32	0,27	0,24	0,20	0,18	0,15	0,14
1,05	9,9	7,95	5,04	3,04	2,04	1,55	1,05	0,55	0,42	0,36	0,32	0,29	0,23	0,21	0,18	0,16
1,1	10,0	8,05	5,10	3,10	2,10	1,60	1,11	0,65	0,52	0,47	0,42	0,37	0,29	0,26	0,21	0,19
1,14	10,1	8,16	5,18	3,24	2,21	1,71	1,28	0,77	0,66	0,60	0,53	0,48	0,35	0,31	0,25	0,23

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 792 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	0,52	0,37	0,31	0,26	0,24	0,20	0,18	0,15	0,14
1,05	8,16	6,57	4,22	2,57	1,73	1,35	0,94	0,51	0,39	0,34	0,30	0,28	0,22	0,20	0,17	0,15
1,1	8,26	6,65	4,27	2,62	1,78	1,38	0,98	0,58	0,47	0,42	0,38	0,34	0,26	0,23	0,19	0,18
1,14	8,37	6,74	4,33	2,73	1,87	1,46	1,10	0,67	0,57	0,52	0,47	0,42	0,31	0,27	0,22	0,20

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 792 A