



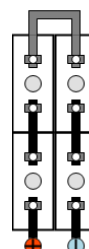
XHP60 - Cell data sheet

Classification

Brand	Alcad
Cell type	XHP60
Cell P/N	210678
Capacity at 5 hours rate	60 Ah
IEC Designation	KH60P
According to	IEC 60623



Wiring principle



Crosswise

Physical data

Overall height	306 mm		
Cell height			
Width	86 mm	Weight per cell	3,4 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	0,9 liters		

Connection

Cable area of internal connection cables	50 mm ²	End-lug (and external cable)	50 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	0,67 mOhm	Short circuit current	1911 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	6,13	7,61	12,0	19,9	29,6	39,2	57,9	112	159	189	225	250	308	337	403	444
1,05	6,08	7,55	11,9	19,7	29,4	38,7	57,1	109	145	168	187	205	258	286	341	373
1,1	6,00	7,45	11,8	19,3	28,6	37,6	54,0	92,6	115	128	143	162	209	234	282	311
1,14	5,92	7,35	11,6	18,5	27,2	35,1	47,0	77,7	91,6	101	112	126	171	194	236	260

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	678 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	7,42	9,21	14,3	23,6	34,9	44,4	62,8	116	163	192	226	250	308	337	403	444
1,05	7,36	9,13	14,2	23,4	34,7	44,4	63,6	117	154	178	197	216	270	300	358	391
1,1	7,27	9,02	14,1	22,9	33,8	43,6	61,5	103	128	142	157	178	230	258	310	342
1,14	7,17	8,90	13,8	22,0	32,0	41,0	54,5	89,3	105	115	128	144	195	221	269	296

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	678 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	0,54	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 678 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 678 A