



XHP115 - Cell data sheet

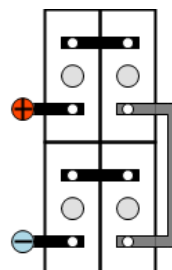
Classification

Brand	Alcad
Cell type	XHP115
Cell P/N	210683
Capacity at 5 hours rate	115 Ah
IEC Designation	KH115P
According to IEC 60623	



Wiring principle

Normal



Physical data

Overall height	339 mm		
Cell height			
Width	166 mm	Weight per cell	6,3 Kg
Length	78 mm		

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		
		Handle	No

Plates

Positive		Negative	
Type of plates	Sintered	Type of plates	Plastic bonded

Electrolyte

Electrolyte type: Renewal		Max/Min	60 mm
Electrolyte type: Initial	E4	Vent oil quantity	
Electrolyte per cell: Liquid	1,3 liters		

Connection

Cable area of internal connection cables	95 mm ²	End-lug (and external cable)	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	0,35 mOhm	Short circuit current	4155 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	11,8	14,6	23,0	38,1	56,7	75,1	111	210	293	342	405	479	653	732	898	966
1,05	11,6	14,5	22,8	37,8	56,4	74,2	110	201	258	294	335	392	556	625	767	833
1,1	11,5	14,3	22,6	37,0	54,9	72,1	104	163	197	222	256	311	451	523	639	689
1,14	11,4	14,1	22,2	35,5	52,0	67,2	90,0	128	153	173	201	245	376	437	540	593

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	1.250 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	14,2	17,7	27,5	45,2	66,9	85,0	120	218	300	348	408	479	653	732	898	966
1,05	14,1	17,5	27,3	44,8	66,5	85,0	122	216	276	312	354	412	583	656	805	875
1,1	13,9	17,3	27,0	43,9	64,8	83,6	118	182	219	246	282	342	496	575	703	758
1,14	13,7	17,0	26,5	42,1	61,4	78,7	104	148	175	198	229	279	428	498	616	676

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	1.250 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	0,55	0,39	0,34	0,28	0,24	0,18	0,16	0,13	0,12
1,05	9,9	7,95	5,04	3,04	2,04	1,55	1,05	0,57	0,44	0,39	0,34	0,29	0,21	0,18	0,15	0,14
1,1	10,0	8,05	5,10	3,10	2,10	1,60	1,11	0,71	0,58	0,52	0,45	0,37	0,26	0,22	0,18	0,17
1,14	10,1	8,16	5,18	3,24	2,21	1,71	1,28	0,90	0,75	0,66	0,57	0,47	0,31	0,26	0,21	0,19

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 1.250 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	0,53	0,38	0,33	0,28	0,24	0,18	0,16	0,13	0,12
1,05	8,16	6,57	4,22	2,57	1,73	1,35	0,94	0,53	0,42	0,37	0,32	0,28	0,20	0,18	0,14	0,13
1,1	8,26	6,65	4,27	2,62	1,78	1,38	0,98	0,63	0,53	0,47	0,41	0,34	0,23	0,20	0,16	0,15
1,14	8,37	6,74	4,33	2,73	1,87	1,46	1,10	0,78	0,66	0,58	0,50	0,41	0,27	0,23	0,19	0,17

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 1.250 A