



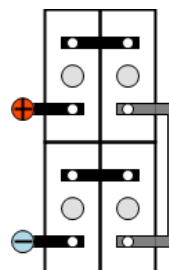
HC120P - Cell data sheet

Classification

Brand	
Cell type	HC120P
Cell P/N	310452251
Capacity at 5 hours rate	120 Ah
IEC Designation	KH120P
According to	IEC 60623



Wiring principle Normal



Physical data

Overall height	357 mm		
Cell height	349 mm		
Width	192 mm	Weight per cell	11,4 Kg
Length	93 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	
Terminal size	M10 SW 16 mm	Handle	No

Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket

Electrolyte

Electrolyte type: Renewal	E13	Max/Min	50 mm
Electrolyte type: Initial	E22	Vent oil quantity	
Electrolyte per cell: Liquid	3,1 liters		

Connection

Cable area of internal connection cables	120 mm ²	End-lug (and external cable)	120 mm ²
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Charging

Float voltage	1,4 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,43 V/Cell		

Resistance/Short circuit

Internal resistance	0,33 mOhm	Short circuit current	4195 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	12,0	15,1	24,0	39,4	58,5	77,1	113	207	278	324	385	478	618	705	889	976
1,05	12,0	14,9	23,6	38,9	57,4	75,4	109	196	240	277	328	389	527	600	741	795
1,1	11,7	14,6	23,0	37,8	55,6	72,7	103	160	192	216	245	302	415	480	588	659
1,14	11,3	14,1	22,2	36,4	53,1	68,8	91,4	125	149	167	189	231	332	384	480	504
1,16	11,0	13,7	21,6	34,9	48,8	61,4	74,1	103	125	136	152	190	282	322	400	430

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	1.142 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	14,6	18,2	28,7	46,7	69,1	87,4	122	215	285	329	388	478	618	705	889	976
1,05	14,5	18,1	28,2	46,1	67,8	86,4	121	211	256	294	347	409	553	630	778	834
1,1	14,1	17,6	27,5	44,8	65,6	84,3	118	179	213	240	271	332	457	528	647	725
1,14	13,6	17,0	26,5	43,1	62,7	80,5	106	144	170	191	216	264	378	438	547	575
1,16	13,2	16,6	25,8	41,4	57,6	72,1	86,7	120	145	158	176	221	327	373	464	499

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	1.142 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	10,0	7,97	5,00	3,04	2,05	1,56	1,06	0,58	0,43	0,37	0,31	0,25	0,19	0,17	0,14	0,12
1,05	10,0	8,03	5,08	3,08	2,09	1,59	1,10	0,61	0,50	0,43	0,37	0,31	0,23	0,20	0,16	0,15
1,1	10,3	8,24	5,21	3,17	2,16	1,65	1,16	0,75	0,63	0,55	0,49	0,40	0,29	0,25	0,20	0,18
1,14	10,7	8,52	5,41	3,30	2,26	1,74	1,31	0,96	0,81	0,72	0,64	0,52	0,36	0,31	0,25	0,24
1,16	11,0	8,77	5,55	3,44	2,46	1,96	1,62	1,17	0,96	0,88	0,79	0,63	0,43	0,37	0,30	0,28

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 1.142 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	8,23	6,58	4,18	2,57	1,74	1,37	0,98	0,56	0,42	0,36	0,31	0,25	0,19	0,17	0,14	0,12
1,05	8,30	6,64	4,25	2,60	1,77	1,39	0,99	0,57	0,47	0,41	0,35	0,29	0,22	0,19	0,15	0,14
1,1	8,51	6,81	4,36	2,68	1,83	1,42	1,02	0,67	0,56	0,50	0,44	0,36	0,26	0,23	0,19	0,17
1,14	8,80	7,04	4,53	2,78	1,91	1,49	1,13	0,84	0,70	0,63	0,56	0,46	0,32	0,27	0,22	0,21
1,16	9,06	7,25	4,64	2,90	2,08	1,66	1,38	1,00	0,83	0,76	0,68	0,54	0,37	0,32	0,26	0,24

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 1.142 A