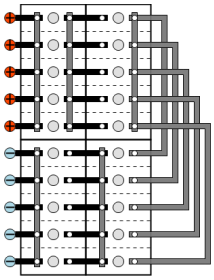
Reliability inside

HB670P - Cell data sheet

Classification

Brand	
Cell type	HB670P
Cell P/N	311027781
Capacity at 5 hours rate	670 Ah
IEC Designation	KH670P
According to IEC 60623	

Wiring principle Crosswise



Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	56,7 Kg
Length	402 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	5
Separator type	Grid	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	
Terminal size	M10 SW 16 mm		
		Handle	Yes

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	15,0 liters		

Connection

Cable area of internal connection cables	120 mm²	End-lug (and external cable)	120 mm²

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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	0,06 mOhm	Short circuit current	19924 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	67,2	83,9	134	221	328	431	631	1.146	1.540	1.765	2.085	2.529	3.175	3.583	4.356	4.633
1,05	66,6	83,2	132	218	322	422	611	1.087	1.321	1.502	1.766	2.055	2.664	3.007	3.628	3.781
1,1	64,8	81,0	129	212	311	407	578	883	1.036	1.165	1.312	1.582	2.124	2.416	2.876	3.022
1,14	63,1	78,8	124	203	285	362	475	697	830	932	1.055	1.291	1.693	1.941	2.284	2.365
1,16	61,1	76,4	121	195	262	323	385	578	689	765	848	1.061	1.438	1.622	1.900	2.011

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 5.850 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	81,2	102	160	262	387	489	686	1.191	1.576	1.793	2.102	2.529	3.175	3.583	4.356	4.633
1,05	80,5	101	158	258	380	484	679	1.173	1.410	1.594	1.865	2.159	2.797	3.159	3.809	3.972
1,1	78,4	98,0	154	251	367	471	658	987	1.150	1.289	1.448	1.740	2.336	2.659	3.163	3.325
1,14	76,3	95,4	148	240	337	424	551	801	951	1.065	1.205	1.472	1.930	2.213	2.605	2.696
1,16	74,0	92,4	145	231	309	379	451	672	801	889	985	1.230	1.668	1.882	2.205	2.333

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 5.850 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	7,98	5,00	3,03	2,04	1,55	1,06	0,58	0,44	0,38	0,32	0,26	0,21	0,19	0,15	0,14
1,05	10,1	8,05	5,07	3,08	2,08	1,59	1,10	0,62	0,51	0,45	0,38	0,33	0,25	0,22	0,18	0,18
1,1	10,3	8,27	5,19	3,17	2,15	1,65	1,16	0,76	0,65	0,58	0,51	0,42	0,32	0,28	0,23	0,22
1,14	10,6	8,50	5,40	3,30	2,35	1,85	1,41	0,96	0,81	0,72	0,64	0,52	0,40	0,35	0,29	0,28
1,16	11,0	8,77	5,53	3,44	2,56	2,07	1,74	1,16	0,97	0,88	0,79	0,63	0,47	0,41	0,35	0,33

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 5.850 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	8,25	6,60	4,18	2,56	1,73	1,37	0,98	0,56	0,43	0,37	0,32	0,26	0,21	0,19	0,15	0,14
1,05	8,32	6,66	4,24	2,60	1,76	1,39	0,99	0,57	0,48	0,42	0,36	0,31	0,24	0,21	0,18	0,17
1,1	8,54	6,83	4,34	2,67	1,83	1,42	1,02	0,68	0,58	0,52	0,46	0,38	0,29	0,25	0,21	0,20
1,14	8,78	7,02	4,52	2,79	1,99	1,58	1,22	0,84	0,70	0,63	0,56	0,46	0,35	0,30	0,26	0,25
1,16	9,06	7,25	4,63	2,90	2,17	1,77	1,49	1,00	0,84	0,75	0,68	0,54	0,40	0,36	0,30	0,29

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 5.850 A