



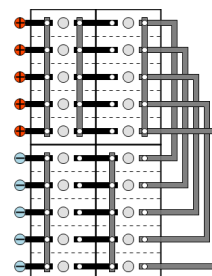
HB655P - Cell data sheet

Classification

Brand	
Cell type	HB655P
Cell P/N	311027681
Capacity at 5 hours rate	655 Ah
IEC Designation	KH655P
According to IEC 60623	



Wiring principle



Crosswise

Physical data

Overall height	410 mm		
Cell height	400 mm		
Width	195 mm	Weight per cell	55,0 Kg
Length	390 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	14,4 liters		

Connection

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



HB655P - Cell data sheet

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	0,07 mOhm	Short circuit current	19478 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	65,6	82,0	131	216	320	422	617	1.120	1.505	1.726	2.039	2.473	3.104	3.503	4.259	4.530
1,05	65,1	81,3	129	213	315	412	597	1.063	1.291	1.468	1.727	2.009	2.604	2.940	3.546	3.696
1,1	63,4	79,2	126	207	304	397	565	863	1.013	1.139	1.283	1.546	2.076	2.362	2.811	2.954
1,14	61,6	77,1	121	198	279	354	464	682	812	911	1.032	1.262	1.655	1.898	2.233	2.312
1,16	59,8	74,7	118	191	256	316	377	565	674	748	829	1.037	1.406	1.586	1.858	1.966

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 5.719 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	79,4	99,3	157	256	378	478	670	1.164	1.541	1.753	2.055	2.473	3.104	3.503	4.259	4.530
1,05	78,7	98,4	154	252	371	473	664	1.147	1.378	1.558	1.823	2.110	2.735	3.088	3.724	3.883
1,1	76,7	95,8	151	245	359	461	643	965	1.124	1.261	1.415	1.701	2.284	2.599	3.093	3.251
1,14	74,6	93,2	145	235	329	414	538	783	930	1.042	1.178	1.439	1.887	2.164	2.547	2.636
1,16	72,3	90,4	141	226	302	371	441	657	783	869	963	1.203	1.631	1.840	2.155	2.281

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 5.719 A



HB655P - 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	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 5.719 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 5.719 A