



HC60P - Cell data sheet

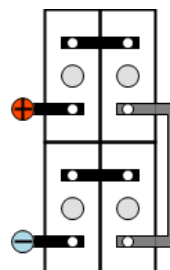
Classification

Brand	
Cell type	HC60P
Cell P/N	310451651
Capacity at 5 hours rate	60 Ah
IEC Designation	KH60P
According to	IEC 60623



Wiring principle

Normal



Physical data

Overall height	357 mm		
Cell height	349 mm		
Width	192 mm	Weight per cell	7,3 Kg
Length	68 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	2,5 liters		

Connection

Cable area of internal connection cables	70 mm ²	End-lug (and external cable)	70 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	0,65 mOhm	Short circuit current	2098 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	6,02	7,53	12,0	19,7	29,3	38,6	56,4	103	139	162	192	239	309	353	444	488
1,05	5,98	7,47	11,8	19,5	28,7	37,7	54,5	98,0	120	138	164	195	263	300	370	397
1,1	5,83	7,29	11,5	18,9	27,8	36,4	51,7	80,0	96,0	108	123	151	208	240	294	329
1,14	5,63	7,04	11,1	18,2	26,6	34,4	45,7	62,5	74,4	83,4	94,5	116	166	192	240	252
1,16	5,47	6,84	10,8	17,5	24,4	30,7	37,0	51,3	62,5	68,0	75,8	95,1	141	161	200	215

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 571 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	7,29	9,11	14,3	23,4	34,5	43,7	61,2	108	142	164	194	239	309	353	444	488
1,05	7,23	9,04	14,1	23,1	33,9	43,2	60,6	106	128	147	173	204	276	315	389	417
1,1	7,05	8,82	13,8	22,4	32,8	42,2	58,8	89,4	107	120	135	166	228	264	323	362
1,14	6,82	8,52	13,2	21,6	31,4	40,2	53,0	71,8	85,2	95,4	108	132	189	219	274	288
1,16	6,62	8,28	12,9	20,7	28,8	36,0	43,3	59,8	72,7	79,0	88,0	110	163	187	232	249

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 571 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 571 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 571 A