



HC40P - Cell data sheet

Classification

Brand	Alcad
Cell type	HC40P
Cell P/N	31-04514-51
Capacity at 5 hours rate	40 Ah
IEC Designation	KH40P
According to IEC 60623	



Physical data

Overall height	358 mm		
Width	192 mm	Weight per cell	6,2 Kg
Length	68 mm	Block length - 2 cells	
Block length - 3 cells		Block length - 4 cells	
Block length - 5 cells		Block length - 6 cells	
Block length - 7 cells		Block length - 8 cells	
Block length - 9 cells		Block length - 10 cells	

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	20,0 +/- 2,0 Nm	Vent type	flame arresting vent
Terminal size	M8		

Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket

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Electrolyte

Electrolyte type: Renewal	E13	Max/Min	50 mm
Electrolyte type: Initial	E22	Vent oil quantity	35 cm ³
Electrolyte per cell: Liquid	2,6 liters		

Connection

Cable area	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	0,98 mOhm	Short circuit current	1433 A
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Performance data

Stationary performance

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	4,03	5,00	8,00	13,2	19,5	25,6	37,7	69,0	93,0	105	121	143	211	235	286	333
1,05	4,00	4,96	7,87	12,9	19,1	25,2	36,4	65,6	80,0	87,0	100	118	174	200	250	267
1,1	3,90	4,84	7,68	12,6	18,5	24,2	34,5	53,3	61,5	69,0	76,9	90,9	138	160	200	211
1,14	3,77	4,68	7,41	12,1	17,7	23,0	30,5	41,2	48,2	52,6	58,8	71,4	111	129	160	167

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	382 A
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