



VTX 1 M 75 - Cell data sheet

Classification

Brand	Alcad
Cell type	VTX 1 M 75
Cell P/N	310561084
Capacity at 5 hours rate	75 Ah
IEC Designation	KGM75P
According to IEC 62259	



Wiring principle

Normal

Physical data

Overall height	421 mm		
Cell height			
Width	195 mm	Weight per cell	4,9 Kg
Block length - 4 cells	156 mm	Block length - 5 cells	192 mm
Block length - 6 cells	228 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Felt	Terminal material	Steel
Connection torque	20,0 +/- 2,0 Nm	Vent type	Low pressure flame arresting vent (small)
Terminal size	M8 SW 13 mm	Handle	Yes

Plates

Positive		Negative	
Type of plates	Maintenance Free Pocket	Type of plates	Maintenance Free Pocket

Electrolyte

Electrolyte type: Renewal	E13	Max/Min	50 mm
Electrolyte type: Initial	E22	Vent oil quantity	
Electrolyte per cell: Liquid	1,2 liters		

Connection

Cable area of internal connection cables	35 mm ²	End-lug (and external cable)	25 mm ²
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Charging

Float voltage	1,42 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,42 V/Cell		

Resistance/Short circuit

Internal resistance	1,52 mOhm	Short circuit current	813 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	7,52	9,33	15,0	24,0	35,3	46,1	61,5	83,9	94,8	102	110	128	135	155	176	189
1,05	7,47	9,28	14,6	23,8	34,6	43,8	54,4	69,8	78,8	84,1	90,7	105	115	131	149	160
1,1	7,39	9,17	14,4	23,2	32,2	37,7	44,6	54,8	60,2	63,7	69,9	82,3	95,1	109	125	133
1,14	7,26	8,98	13,9	21,3	26,6	29,6	34,2	41,9	45,7	48,4	52,7	64,4	74,9	87,5	100	106

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	8,96	11,0	17,5	26,8	38,3	49,0	63,4	85,1	95,6	102	111	128	135	155	176	189
1,05	8,91	11,0	17,0	26,6	37,9	47,3	58,4	74,0	83,2	88,7	95,4	110	121	138	157	168
1,1	8,83	10,9	16,9	26,5	36,4	42,3	49,6	60,7	66,4	70,2	77,0	90,5	105	120	137	146
1,14	8,67	10,7	16,4	24,8	30,8	34,1	39,2	47,9	52,2	55,3	60,1	73,4	85,4	100	114	121



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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	8,04	5,00	3,12	2,13	1,63	1,22	0,89	0,79	0,74	0,68	0,59	0,56	0,48	0,43	0,40
1,05	10,0	8,09	5,14	3,16	2,17	1,71	1,38	1,07	0,95	0,89	0,83	0,71	0,65	0,57	0,50	0,47
1,1	10,1	8,18	5,22	3,24	2,33	1,99	1,68	1,37	1,25	1,18	1,07	0,91	0,79	0,69	0,60	0,57
1,14	10,3	8,35	5,38	3,52	2,82	2,53	2,20	1,79	1,64	1,55	1,42	1,16	1,00	0,86	0,75	0,71

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	8,37	6,80	4,28	2,80	1,96	1,53	1,18	0,88	0,78	0,73	0,68	0,59	0,56	0,48	0,43	0,40
1,05	8,41	6,84	4,40	2,82	1,98	1,59	1,28	1,01	0,90	0,85	0,79	0,68	0,62	0,54	0,48	0,45
1,1	8,50	6,89	4,44	2,83	2,06	1,77	1,51	1,24	1,13	1,07	0,97	0,83	0,72	0,62	0,55	0,51
1,14	8,65	7,02	4,57	3,02	2,44	2,20	1,91	1,57	1,44	1,36	1,25	1,02	0,88	0,75	0,66	0,62