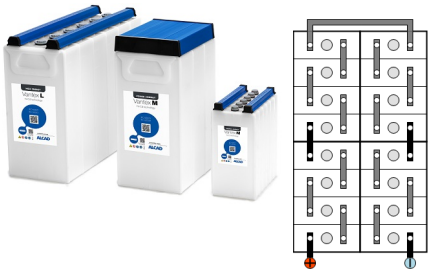
Reliability inside

VTX 1 M 125 - Cell data sheet

Classification

Brand	Alcad
Cell type	VTX 1 M 125
Cell P/N	310561284
Capacity at 5 hours rate	125 Ah
IEC Designation	KGM125P
According to IEC 62259	



Wiring principle Normal

Physical data

Overall height	421 mm		
Cell height			
Width	195 mm	Weight per cell	7,6 Kg
Block length - 4 cells	228 mm	Block length - 5 cells	282 mm
Block length - 6 cells	336 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Felt	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	Low pressure flame arresting vent (large)
Terminal size	M10 SW 16 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	1,7 liters		

Connection

Cable area of internal connection cables	70 mm²	End-lug (and external cable)	50 mm²

VTX 1 M 125 - Cell data sheet

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	0,91 mOhm	Short circuit current	1355 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	12,5	15,6	25,0	40,0	58,8	76,8	103	140	158	170	184	213	225	258	294	315
1,05	12,5	15,5	24,3	39,6	57,7	73,0	90,8	116	131	140	151	175	192	219	249	266
1,1	12,3	15,3	24,0	38,6	53,6	62,8	74,3	91,4	100	106	117	137	158	182	208	221
1,14	12,1	15,0	23,2	35,5	44,4	49,3	56,9	69,8	76,1	80,7	87,8	107	125	146	167	177

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	14,9	18,4	29,2	44,6	63,8	81,8	106	142	159	171	185	213	225	258	294	315
1,05	14,9	18,3	28,4	44,3	63,1	78,8	97,3	123	139	148	159	184	201	229	261	279
1,1	14,7	18,1	28,2	44,2	60,6	70,5	82,8	101	111	117	128	151	174	201	229	243
1,14	14,4	17,8	27,4	41,3	51,3	56,8	65,3	79,8	86,9	92,1	100	122	142	166	191	201

VTX 1 M 125 - 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	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