



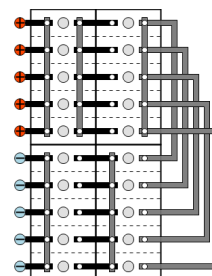
VTX 1 M 985 - Cell data sheet

Classification

Brand	Alcad
Cell type	VTX 1 M 985
Cell P/N	310563681
Capacity at 5 hours rate	985 Ah
IEC Designation	KGM985P
According to	IEC 62259



Wiring principle



Crosswise

Physical data

Overall height	411 mm		
Cell height			
Width	195 mm	Weight per cell	57,5 Kg
Length	437 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	5
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	14,5 liters		

Connection

Cable area of internal connection cables	70 mm²	End-lug (and external cable)	70 mm²
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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	0,12 mOhm	Short circuit current	10680 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	98,7	123	197	316	463	605	808	1.102	1.245	1.337	1.451	1.682	1.775	2.033	2.315	2.484
1,05	98,2	122	192	312	455	575	715	917	1.035	1.105	1.191	1.379	1.512	1.722	1.959	2.097
1,1	97,1	120	189	304	423	495	585	720	790	836	918	1.081	1.248	1.437	1.637	1.741
1,14	95,3	118	183	280	350	389	449	550	600	636	692	846	984	1.149	1.319	1.392

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	118	145	230	352	503	644	833	1.118	1.256	1.345	1.455	1.682	1.775	2.033	2.315	2.484
1,05	117	144	224	349	498	621	767	973	1.093	1.165	1.253	1.448	1.587	1.808	2.056	2.202
1,1	116	143	222	349	477	555	652	797	872	922	1.011	1.189	1.373	1.580	1.801	1.915
1,14	114	140	216	326	404	447	515	629	685	726	789	964	1.122	1.310	1.504	1.587



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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