



VTX 1 M 245 - Cell data sheet

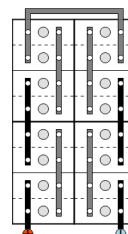
Classification

Brand	Alcad
Cell type	VTX 1 M 245
Cell P/N	310561782
Capacity at 5 hours rate	245 Ah
IEC Designation	KGM245P
According to IEC 62259	



Wiring principle

Normal



Physical data

Overall height	421 mm		
Cell height			
Width	195 mm	Weight per cell	15,2 Kg
Block length - 2 cells	228 mm	Block length - 3 cells	336 mm

Construction

Container material	Polypropylene	No. of terminals/polarity	2
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	3,4 liters		

Connection

Cable area of internal connection cables	95 mm ²	End-lug (and external cable)	95 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	0,47 mOhm	Short circuit current	2656 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	24,6	30,5	49,0	78,5	115	150	201	274	310	333	361	418	441	506	576	618
1,05	24,4	30,3	47,7	77,6	113	143	178	228	257	275	296	343	376	428	487	522
1,1	24,2	30,0	47,0	75,7	105	123	146	179	197	208	228	269	311	357	407	433
1,14	23,7	29,3	45,5	69,6	87,0	96,7	112	137	149	158	172	210	245	286	328	346

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	29,3	36,0	57,2	87,5	125	160	207	278	312	334	362	418	441	506	576	618
1,05	29,1	35,8	55,6	86,8	124	154	191	242	272	290	312	360	395	450	511	548
1,1	28,8	35,5	55,2	86,7	119	138	162	198	217	229	252	296	342	393	448	476
1,14	28,3	34,9	53,7	81,0	101	111	128	156	170	181	196	240	279	326	374	395



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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