



VTX 1 L 185 - Cell data sheet

Classification

Brand	Alcad
Cell type	VTX 1 L 185
Cell P/N	310557784
Capacity at 5 hours rate	185 Ah
IEC Designation	KGL185P
According to IEC 62259	



Wiring principle

Normal

Physical data

Overall height	421 mm		
Cell height			
Width	195 mm	Weight per cell	8,4 Kg
Block length - 4 cells	252 mm	Block length - 5 cells	312 mm
Block length - 6 cells	372 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	2,0 liters		

Connection

Cable area of internal connection cables	35 mm ²	End-lug (and external cable)	35 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	1,31 mOhm	Short circuit current	1036 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	19,2	23,8	37,0	59,6	77,5	88,8	104	127	138	147	154	170	170	186	220	241
1,05	19,0	23,5	36,6	54,0	67,5	76,5	87,2	104	113	117	123	135	143	155	184	201
1,1	18,5	22,8	33,9	46,6	56,4	62,0	69,8	83,2	89,8	93,9	98,7	106	117	128	152	164
1,14	17,6	20,9	28,9	36,4	43,5	48,1	53,8	62,9	68,3	73,0	78,6	88,9	92,2	102	121	129

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	22,3	27,2	41,4	63,7	81,1	91,8	107	128	139	147	155	170	170	186	220	241
1,05	22,2	27,0	41,5	59,4	73,2	82,2	93,0	110	119	123	129	142	150	163	193	211
1,1	21,6	26,5	39,2	52,8	63,2	69,2	77,5	91,9	99,1	103	109	117	129	141	167	180
1,14	20,6	24,5	33,7	42,1	50,0	55,2	61,7	71,9	77,9	83,3	89,6	101	105	117	138	147



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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	9,6	7,76	5,00	3,11	2,39	2,08	1,77	1,46	1,34	1,26	1,20	1,09	1,09	0,99	0,84	0,77
1,05	9,7	7,89	5,06	3,43	2,74	2,42	2,12	1,78	1,64	1,59	1,50	1,37	1,29	1,19	1,01	0,92
1,1	10,0	8,12	5,45	3,97	3,28	2,98	2,65	2,22	2,06	1,97	1,87	1,74	1,58	1,45	1,22	1,13
1,14	10,5	8,84	6,41	5,08	4,26	3,85	3,44	2,94	2,71	2,53	2,35	2,08	2,01	1,81	1,52	1,43

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	8,30	6,79	4,47	2,90	2,28	2,01	1,73	1,44	1,33	1,26	1,20	1,09	1,09	0,99	0,84	0,77
1,05	8,35	6,84	4,45	3,11	2,53	2,25	1,99	1,68	1,55	1,51	1,43	1,30	1,23	1,14	0,96	0,88
1,1	8,55	6,98	4,72	3,50	2,93	2,67	2,39	2,01	1,87	1,79	1,70	1,58	1,44	1,32	1,11	1,03
1,14	8,97	7,55	5,49	4,40	3,70	3,35	3,00	2,57	2,37	2,22	2,06	1,83	1,76	1,59	1,34	1,26