



VN285 - Cell data sheet

Classification

Brand	Alcad
Cell type	VN285
Cell P/N	31-03203-8*
Capacity at 5 hours rate	285 Ah
IEC Designation	KGM285P
According to IEC 62259	



Physical data

Overall height	421 mm		
Width	195 mm	Weight per cell	16,7 Kg
Length		Block length - 2 cells	265 mm
Block length - 3 cells	385 mm	Block length - 4 cells	
Block length - 5 cells		Block length - 6 cells	
Block length - 7 cells		Block length - 8 cells	
Block length - 9 cells		Block length - 10 cells	

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 vent (large)
Terminal size	M10		

Plates

Positive		Negative	
Type of plates	Ultra Low Maintenance Pocket	Type of plates	Ultra Low Maintenance Pocket

ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.

Visit our website at www.alcad.com

Version: 1.5, Last updated on 04/2015

P 1/2



VN285 - Cell data sheet

Electrolyte

Electrolyte type: Renewal		Max/Min	190 mm
Electrolyte type: Initial	E22	Vent oil quantity	
Electrolyte per cell: Liquid	4,2 liters		

Connection

Cable area	70 mm ²
------------	--------------------

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	0,35 mOhm	Short circuit current	3079 A
---------------------	-----------	-----------------------	--------

Performance data

Stationary performance

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	29,0	36,0	56,9	93,2	136	168	218	284	324	348	377	403	495	539	661	716
1,05	28,7	35,6	56,6	91,5	131	154	186	239	266	282	300	335	427	457	551	597
1,1	28,4	35,3	55,3	86,3	117	134	157	189	209	221	234	259	335	372	427	447
1,14	27,6	34,2	54,1	78,3	88,3	95,0	109	132	148	157	168	195	252	273	326	348

ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.

Visit our website at www.alcad.com

Version: 1.5, Last updated on 04/2015

P 2/2