



MC145P - Cell data sheet

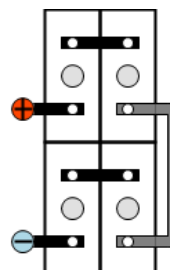
Classification

Brand	Alcad
Cell type	MC145P
Cell P/N	310449951
Capacity at 5 hours rate	145 Ah
IEC Designation	KM145P
According to IEC 60623	



Wiring principle

Normal



Physical data

Overall height	357 mm		
Cell height	349 mm		
Width	192 mm	Weight per cell	10,1 Kg
Length	93 mm		

Construction

Container material	Polypropylene	No. of terminals/polarity	1
Separator type	Grid	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	
Terminal size	M10 SW 16 mm		
		Handle	No

Plates

Positive		Negative	
Type of plates	Pocket	Type of plates	Pocket

Electrolyte

Electrolyte type: Renewal	E13	Max/Min	50 mm
Electrolyte type: Initial	E22	Vent oil quantity	
Electrolyte per cell: Liquid	3,2 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	1,4 V/Cell	High rate voltage (min)	1,45 V/Cell
Single-level voltage	1,43 V/Cell		

Resistance/Short circuit

Internal resistance	0,54 mOhm	Short circuit current	2468 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	14,7	18,3	29,0	47,5	69,4	86,2	122	166	193	210	240	285	391	443	538	574
1,05	14,6	18,1	28,8	46,8	65,1	83,1	110	141	166	181	202	236	336	380	459	490
1,1	14,4	17,8	28,3	43,6	60,8	73,4	89,4	113	138	144	165	200	283	319	379	438
1,14	14,0	17,4	27,3	41,0	52,3	59,5	68,5	84,3	95,9	104	120	151	213	239	278	287
1,16	13,6	16,7	25,1	38,0	44,0	47,0	57,0	72,1	82,0	86,1	96,5	120	178	201	228	243

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	17,6	21,6	33,8	53,1	73,9	90,3	125	168	195	211	241	285	391	443	538	574
1,05	17,4	21,5	33,7	52,4	71,4	90,2	118	150	176	191	213	248	353	399	482	515
1,1	17,2	21,2	33,3	50,0	68,6	82,4	100	125	152	159	182	220	311	351	417	482
1,14	16,8	20,7	32,2	47,8	60,4	68,5	78,6	96,4	109	119	137	172	242	272	317	328
1,16	16,3	19,9	29,6	44,6	51,4	54,8	66,4	83,7	95,2	100	112	140	207	233	265	282



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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	9,8	7,94	5,00	3,05	2,09	1,68	1,19	0,87	0,75	0,69	0,60	0,51	0,37	0,33	0,27	0,25
1,05	9,9	8,00	5,04	3,10	2,23	1,74	1,32	1,03	0,87	0,80	0,72	0,61	0,43	0,38	0,32	0,30
1,1	10,1	8,12	5,12	3,32	2,39	1,97	1,62	1,29	1,05	1,00	0,88	0,72	0,51	0,45	0,38	0,33
1,14	10,3	8,33	5,32	3,53	2,77	2,44	2,12	1,72	1,51	1,39	1,21	0,96	0,68	0,61	0,52	0,50
1,16	10,6	8,67	5,78	3,82	3,30	3,08	2,54	2,01	1,77	1,68	1,50	1,20	0,81	0,72	0,64	0,60

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	8,26	6,72	4,28	2,73	1,96	1,61	1,16	0,86	0,74	0,69	0,60	0,51	0,37	0,33	0,27	0,25
1,05	8,32	6,75	4,30	2,77	2,03	1,61	1,23	0,97	0,82	0,76	0,68	0,58	0,41	0,36	0,30	0,28
1,1	8,45	6,85	4,35	2,90	2,11	1,76	1,46	1,16	0,95	0,91	0,80	0,66	0,47	0,41	0,35	0,30
1,14	8,66	7,01	4,51	3,04	2,40	2,12	1,84	1,50	1,32	1,22	1,06	0,84	0,60	0,53	0,46	0,44
1,16	8,90	7,29	4,89	3,25	2,82	2,64	2,19	1,73	1,52	1,45	1,29	1,04	0,70	0,62	0,55	0,51