

UP1L 140 - Cell data sheet

Classification

Brand	Saft
Cell type	UP1L 140
Cell P/N	310557674
Capacity at 5 hours rate	140 Ah
IEC Designation	KGL140P
According to IEC 62259	



Wiring principle

Normal

Physical data

Overall height	421 mm		
Cell height			
Width	195 mm	Weight per cell	6,7 Kg
Length	-	Block length - 2 cells	-
Block length - 3 cells	-	Block length - 4 cells	205 mm
Block length - 5 cells	253 mm	Block length - 6 cells	301 mm
Block length - 7 cells	-	Block length - 8 cells	-
Block length - 9 cells	-	Block length - 10 cells	-

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
Terminal size	M10	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	1,5 liters		

Connection

Cable area of internal connection cables	70 mm ²	End-lug (and external cable)	50 mm ²
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(378215) Version: 2.9, Last updated on 02/2020

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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	1,73 mOhm	Short circuit current	784 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	14,6	18,0	28,0	45,1	58,7	67,2	79,0	96,0	105	111	117	129	129	141	166	182
1,05	14,4	17,8	27,7	40,8	51,1	57,9	66,0	78,6	85,6	88,2	93,1	102	108	117	139	152
1,1	14,0	17,2	25,7	35,3	42,7	47,0	52,8	63,0	68,0	71,1	74,7	80,4	88,6	96,8	115	124
1,14	13,3	15,8	21,8	27,5	32,9	36,4	40,7	47,6	51,7	55,3	59,5	67,3	69,8	77,4	91,9	97,8

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	16,9	20,6	31,3	48,2	61,4	69,5	80,7	97,0	105	111	117	129	129	141	166	182
1,05	16,8	20,5	31,4	45,0	55,4	62,2	70,4	83,1	90,3	92,9	97,9	107	114	123	146	160
1,1	16,4	20,0	29,6	40,0	47,9	52,4	58,7	69,6	75,0	78,3	82,2	88,5	97,5	106	126	136
1,14	15,6	18,6	25,5	31,8	37,9	41,8	46,7	54,4	59,0	63,0	67,8	76,7	79,5	88,3	105	112

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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