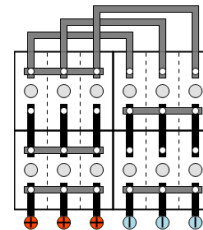


# SUN+ 810 - Cell data sheet

## Classification

Brand	Saft
Cell type	SUN+ 810
Cell P/N	311002471
Capacity at 5 hours rate	750 Ah
IEC Designation	KGL750P
According to IEC 62259	

Wiring principle



Crosswise

## Physical data

Overall height	411 mm		
Cell height	410 mm		
Width	195 mm	Weight per cell	31.4 Kg
Length	243 mm		

## Construction

Container material	Polypropylene	No. of terminals/polarity	3
Separator type	Felt	Terminal material	Steel
Connection torque	30.0 +/- 3.0 Nm	Vent type	Flame arresting vent (large)
Terminal size	M10 SW 16 mm	Handle	Yes

## Plates

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

## Electrolyte

Electrolyte type: Renewal	E13	Max/Min	50 mm
Electrolyte type: Initial	E29	Vent oil quantity	
Electrolyte per cell: Liquid	7.8 liters		

## Connection

Cable area of internal connection cables	70 mm <sup>2</sup>	End-lug (and external cable)	10 mm <sup>2</sup>
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# SUN+ 810 - Cell data sheet

## Charging

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Float voltage	1.5 V/Cell	High rate voltage (recommended)	1.65 V/Cell
Single-level voltage	1.5 V/Cell		

## Resistance/Short circuit

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Internal resistance	0.32 mOhm	Short circuit current	5386 A
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# SUN+ 810 - Cell data sheet

## Kt Factor

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### Current discharge

For a fully charged cell after a constant current charge according to IEC 62259 standard at +20°C +/- 5°C (+68°F +/- 9°F)

V/Cell	240h	216h	192h	168h	144h	120h	96h	72h	48h	10h	8h	5h	3h	2h	1.5h	1h	30m	20m	15m	10m	5m
1	230	203	181	159	136	115	91.6	67.9	45.7	9.6	7.76	5.00	3.01	2.15	1.79	1.49	1.21	1.08	1.01	0.96	0.85
1.05	230	203	181	159	137	117	93.6	69.4	46.7	9.7	7.89	5.06	3.15	2.38	2.03	1.70	1.41	1.29	1.24	1.16	1.01
1.1	230	203	181	159	138	117	94.6	70.1	47.2	10.0	8.04	5.18	3.49	2.69	2.39	2.07	1.67	1.54	1.42	1.35	1.25
1.14	230	203	182	160	138	117	96.0	72.1	49.2	10.5	8.49	5.64	4.07	3.28	2.88	2.47	2.09	1.90	1.77	1.65	1.44
1.16	230	204	182	160	138	118	96.0	72.1	50.1	11.0	9.00	6.20	4.60	3.67	3.23	2.75	2.32	2.14	2.02	1.91	1.70
1.18	234	208	185	162	140	118	96.3	73.8	52.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.2	243	219	194	170	147	125	104	78.9	56.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Power discharge

For a fully charged cell after a constant current charge according to IEC 62259 standard at +20°C +/- 5°C (+68°F +/- 9°F)

V/Cell	240h	216h	192h	168h	144h	120h	96h	72h	48h	10h	8h	5h	3h	2h	1.5h	1h	30m	20m	15m	10m	5m
1	186	164	146	129	110	92.4	75.1	56.1	38.1	8.30	6.79	4.47	2.82	2.05	1.73	1.46	1.20	1.08	1.01	0.96	0.85
1.05	186	167	150	131	112	94.4	76.7	57.3	38.9	8.35	6.84	4.46	2.86	2.20	1.89	1.59	1.33	1.23	1.18	1.10	0.97
1.1	186	164	146	129	111	94.5	77.5	57.9	39.3	8.55	6.91	4.49	3.08	2.40	2.14	1.86	1.51	1.40	1.29	1.23	1.14
1.14	186	164	147	129	111	94.7	77.4	58.1	39.6	8.98	7.25	4.83	3.52	2.85	2.51	2.16	1.83	1.66	1.55	1.44	1.26
1.16	186	165	147	129	111	94.8	77.4	58.1	40.4	9.40	7.65	5.28	3.93	3.15	2.77	2.36	2.00	1.85	1.74	1.65	1.46
1.18	189	168	149	131	112	94.8	77.7	59.5	42.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.2	196	177	157	138	119	101	83.5	63.6	45.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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