

# RES SOPzS

## Technical Data



BATTERIES



SOLAR PV



WIND



GENSET



GRID



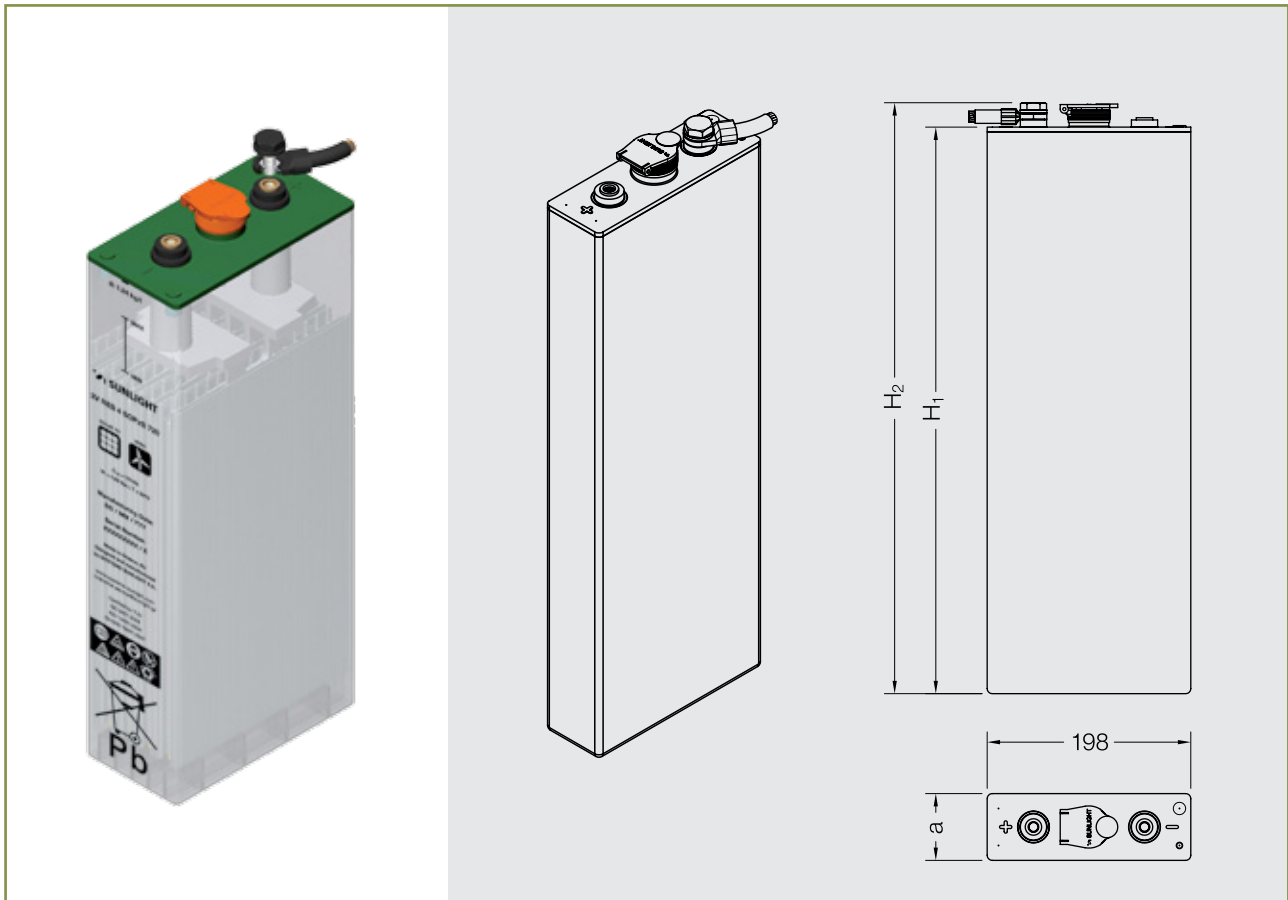
# SUNLIGHT

## Product Range

2V Cell Type	Capacity (Ah at 20°C)				Dimensions				Weight		Internal Resistance (mOhm)	Short Circuit Current (A)
	C120 Uf=1.85V	C48 Uf=1.80V	C24 Uf=1.80V	C12 Uf=1.75V	Length (mm)	Width (mm)	Height <sub>1</sub> (mm)	Height <sub>2</sub> (mm)	Dry (kg)	Wet (kg)		
RES 2 SOPzS 215	215	199	177	156	198	65	408	435	7.4	11.5	1.75	1160
RES 3 SOPzS 310	310	288	257	227	198	83	408	435	10.0	15.4	1.19	1700
RES 3 SOPzS 390	392	365	326	289	198	83	478	505	12.1	18.4	1.02	1980
RES 4 SOPzS 500	503	470	420	375	198	101	478	505	15.4	23.3	0.78	2590
RES 5 SOPzS 605	605	567	508	455	198	119	478	505	18.7	28.0	0.64	3170
RES 4 SOPzS 720	721	688	620	558	198	101	613	640	21.0	30.5	0.63	3190
RES 5 SOPzS 860	860	823	744	673	198	119	613	640	25.6	36.9	0.52	3890
RES 6 SOPzS 965	969	933	846	771	198	137	613	640	30.2	43.4	0.44	4560
RES 7 SOPzS 1270	1271	1206	1084	976	198	174	613	640	35.0	51.6	0.39	5190
RES 8 SOPzS 1380	1382	1318	1188	1075	198	192	613	640	39.6	58.1	0.35	5790

Technical details may be subject to alterations.

## Drawings



## Technical Features

### Design

<b>Positive plates</b>	Tubular plates with special low-antimony lead alloy ( $\leq 1.65\%$ Sb).
<b>Negative plates</b>	Pasted negative plates of grid design with optimized low-antimony lead alloy.
<b>Separators</b>	Low resistance, microporous PVC.
<b>Electrolyte</b>	Diluted sulphuric acid.
<b>Container, lid material</b>	Polypropylene (translucent for the container) with lid welding, trimming and tightness control.
<b>Poles</b>	Premium design with insert and rubber seal in the lid for hardness and acid resistance. M10 brass inlay. Impedance measurements possible.
<b>Connectors</b>	Accurate voltage measurements possible due to bolt-on type design. Steel bolts with plastic encapsulated heads. Insulated flexible connectors.
<b>Ceramic Plugs</b>	Flame arresting design. Ceramic funnel plugs also available.

### Operation

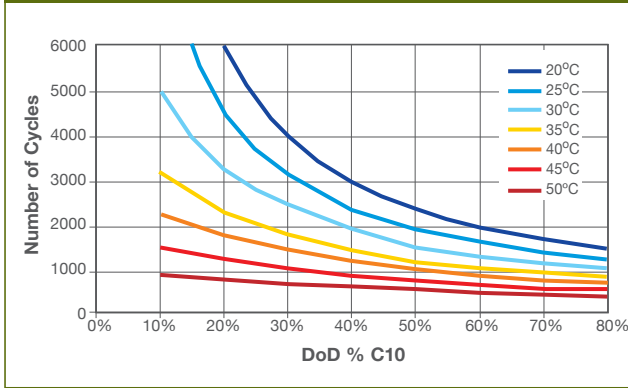
<b>Number of cycles</b>	2000 cycles for 60% DoD at 20°C.
<b>Design life</b>	18 years (stand-by float, 20°C).
<b>Maintenance</b>	Low topping up requirements due to large container and special low-antimony lead alloy plates.
<b>Operating temperature</b>	Recommended 15°C to 35°C. Max: 50°C.
<b>Storage Time</b>	Maximum shelf life up to 3 months at 20°C, 2 months at 30°C or 1 month at 40°C.
<b>Self discharge rate</b>	Approx. 2.5% per month at 20°C.

### Certified Quality

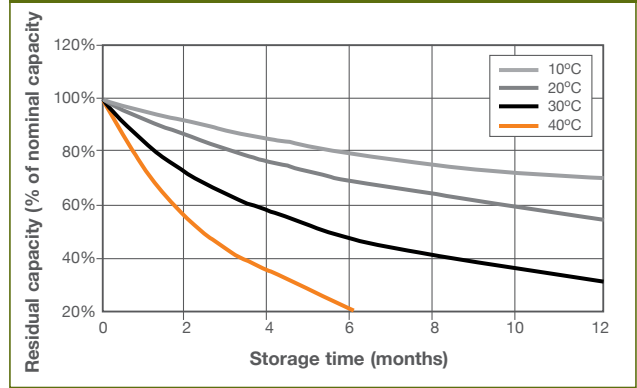
- Manufactured at SUNLIGHT's European production facilities, certified with ISO 9001, ISO 14001, BS OHSAS 18001
- Compliant with IEC 61427 requirements for photovoltaic energy systems
- "Long Life" according to Eurobat classification
- Fully compliant with IEC 60896-11 requirements for vented lead-acid batteries
- Compliant with the safety requirements of EN 50272-2 for stationary batteries

## Performance Curves

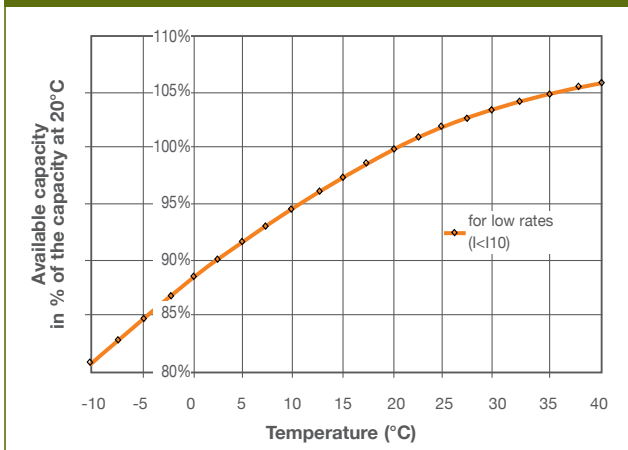
### Expected Number of Cycles vs. DoD



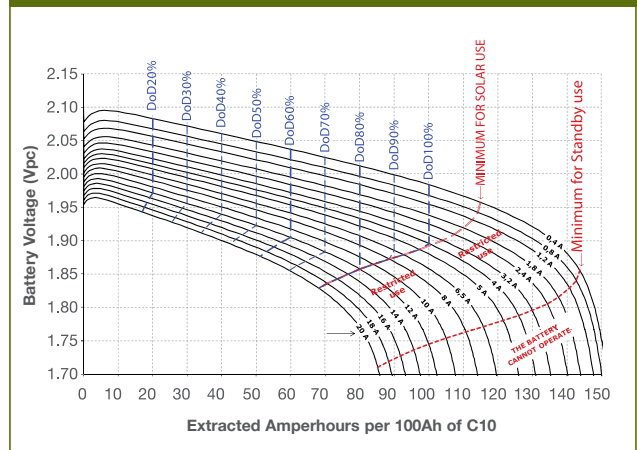
### Self-discharge Characteristics



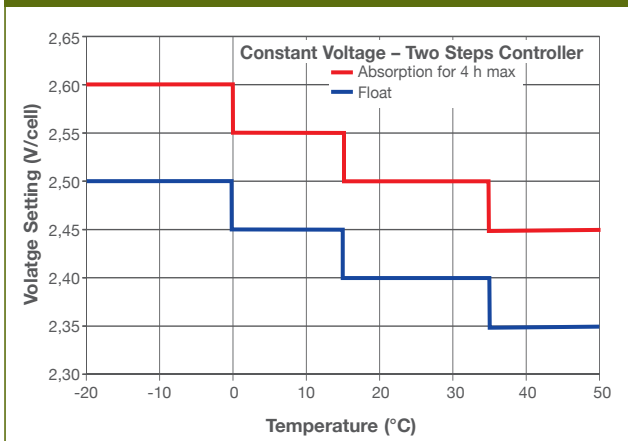
### Capacity vs. Temperature



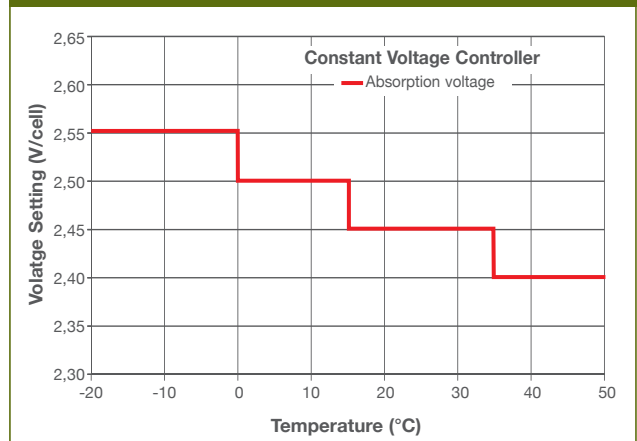
### Low-voltage Disconnect Settings



### Charging Settings for Stand-alone Systems



### Charging Settings for Hybrid Systems



## Performance Data

### Discharge Constant Current at 20°C (Amperes)

End Voltage 1.60 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	73.64	47.66	36.40	29.87	25.52	22.38	20.00	18.12	15.33	13.34	10.67	8.94
RES 3 SOPzS 310	108.92	70.23	53.52	43.84	37.41	32.78	29.27	26.50	22.40	19.47	15.55	13.01
RES 3 SOPzS 390	139.39	89.87	68.43	56.03	47.78	41.84	37.35	33.81	28.55	24.82	19.80	16.56
RES 4 SOPzS 500	183.29	117.76	89.46	73.12	62.28	54.49	48.59	43.95	37.08	32.19	25.65	21.43
RES 5 SOPzS 605	226.11	144.66	109.60	89.43	76.04	66.46	59.21	53.52	45.09	39.11	31.11	25.96
RES 4 SOPzS 720	274.93	177.10	134.45	109.84	93.55	81.82	72.92	65.91	55.51	48.12	38.23	31.86
RES 5 SOPzS 860	337.92	216.75	164.06	133.75	113.72	99.32	88.41	79.83	67.13	58.12	46.09	38.35
RES 6 SOPzS 965	396.80	253.15	190.89	155.21	131.67	114.79	102.04	92.02	77.22	66.75	52.80	43.86
RES 7 SOPzS 1270	478.63	309.47	235.10	192.13	163.66	143.15	127.59	115.32	97.13	84.21	66.91	55.76
RES 8 SOPzS 1380	537.36	346.13	262.19	213.82	181.82	158.82	141.39	127.67	107.37	92.96	73.73	61.36

End Voltage 1.65 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	72.77	47.27	36.14	29.67	25.36	22.24	19.88	18.02	15.24	13.27	10.61	8.89
RES 3 SOPzS 310	107.54	69.64	53.12	43.54	37.16	32.57	29.08	26.33	22.26	19.35	15.45	12.93
RES 3 SOPzS 390	137.24	89.01	67.87	55.61	47.44	41.56	37.10	33.59	28.37	24.66	19.68	16.46
RES 4 SOPzS 500	180.21	116.57	88.69	72.55	61.81	54.09	48.25	43.65	36.83	31.98	25.49	21.29
RES 5 SOPzS 605	222.15	143.16	108.64	88.71	75.46	65.97	58.79	53.14	44.78	38.85	30.91	25.79
RES 4 SOPzS 720	267.55	174.83	133.09	108.86	92.77	81.17	72.36	65.41	55.10	47.77	37.97	31.64
RES 5 SOPzS 860	328.36	213.86	162.36	132.53	112.74	98.51	87.72	79.22	66.63	57.70	45.76	38.09
RES 6 SOPzS 965	384.67	249.56	188.80	153.72	130.48	113.81	101.19	91.28	76.62	66.24	52.41	43.55
RES 7 SOPzS 1270	463.56	305.14	232.60	190.35	162.25	141.98	126.58	114.44	96.42	83.60	66.44	55.39
RES 8 SOPzS 1380	519.29	341.03	259.28	211.76	180.20	157.48	140.24	126.67	106.55	92.27	73.20	60.93

End Voltage 1.70 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	71.20	46.67	35.76	29.38	25.13	22.05	19.71	17.87	15.12	13.16	10.53	8.82
RES 3 SOPzS 310	105.02	68.69	52.52	43.10	36.80	32.26	28.82	26.10	22.07	19.19	15.33	12.83
RES 3 SOPzS 390	133.16	87.61	67.02	54.99	46.94	41.14	36.74	33.27	28.11	24.44	19.51	16.32
RES 4 SOPzS 500	174.33	114.58	87.50	71.69	61.12	53.52	47.76	43.22	36.48	31.68	25.26	21.10
RES 5 SOPzS 605	214.60	140.63	107.14	87.62	74.60	65.25	58.18	52.60	44.34	38.48	30.62	25.56
RES 4 SOPzS 720	254.20	170.72	130.85	107.32	91.58	80.19	71.53	64.69	54.52	47.29	37.60	31.34
RES 5 SOPzS 860	311.34	208.61	159.51	130.58	111.24	97.28	86.67	78.31	65.90	57.09	45.30	37.72
RES 6 SOPzS 965	363.43	242.94	185.26	151.31	128.64	112.31	99.92	90.18	75.74	65.51	51.86	43.10
RES 7 SOPzS 1270	437.68	297.13	228.38	187.49	160.07	140.21	125.08	113.14	95.38	82.74	65.79	54.86
RES 8 SOPzS 1380	489.01	331.54	254.32	208.43	177.66	155.42	138.51	125.16	105.35	91.28	72.45	60.32

## Performance Data

### Discharge Constant Current at 20°C (Amperes)

End Voltage 1.75 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	68.13	45.57	35.10	28.91	24.76	21.74	19.45	17.63	14.93	13.00	10.41	8.72
RES 3 SOPzS 310	100.14	66.91	51.48	42.35	36.22	31.78	28.41	25.74	21.78	18.95	15.14	12.67
RES 3 SOPzS 390	125.70	84.87	65.46	53.90	46.10	40.46	36.16	32.76	27.71	24.10	19.25	16.11
RES 4 SOPzS 500	163.85	110.64	85.27	70.14	59.93	52.55	46.94	42.51	35.91	31.21	24.90	20.82
RES 5 SOPzS 605	201.35	135.63	104.32	85.67	73.10	64.04	57.15	51.71	43.64	37.89	30.18	25.20
RES 4 SOPzS 720	234.13	162.56	126.42	104.39	89.39	78.46	70.08	63.45	53.55	46.49	37.01	30.87
RES 5 SOPzS 860	286.10	198.23	153.86	126.85	108.48	95.09	84.85	76.75	64.69	56.09	44.57	37.13
RES 6 SOPzS 965	332.66	230.04	178.18	146.63	125.18	109.58	97.66	88.24	74.24	64.28	50.96	42.39
RES 7 SOPzS 1270	400.59	281.59	219.94	181.99	156.02	137.02	122.45	110.89	93.64	81.31	64.74	54.03
RES 8 SOPzS 1380	446.23	313.29	244.36	201.94	172.90	151.68	135.42	122.54	103.33	89.62	71.24	59.37

End Voltage 1.80 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	21.15	18.95	17.20	14.59	12.72	7.38	4.15	2.92	2.18	1.85	1.36	0.97
RES 3 SOPzS 310	30.83	27.61	25.05	21.23	18.49	10.71	6.00	4.22	3.15	2.67	1.96	1.40
RES 3 SOPzS 390	39.06	34.99	31.76	26.92	23.46	13.58	7.61	5.35	3.99	3.38	2.48	1.77
RES 4 SOPzS 500	50.55	45.26	41.07	34.79	30.29	17.50	9.79	6.88	5.13	4.34	3.18	2.27
RES 5 SOPzS 605	61.51	55.04	49.90	42.22	36.73	21.15	11.81	8.28	6.17	5.23	3.82	2.73
RES 4 SOPzS 720	74.76	67.02	60.85	51.56	44.88	25.82	14.33	9.99	7.38	6.23	4.52	3.20
RES 5 SOPzS 860	90.42	80.98	73.46	62.17	54.06	30.99	17.15	11.93	8.81	7.42	5.39	3.81
RES 6 SOPzS 965	103.76	92.84	84.13	71.09	61.74	35.25	19.44	13.49	9.95	8.38	6.07	4.29
RES 7 SOPzS 1270	130.22	116.84	106.14	90.02	78.40	45.18	25.12	17.52	12.96	10.93	7.94	5.63
RES 8 SOPzS 1380	143.72	128.85	116.96	99.08	86.20	49.52	27.45	19.11	14.12	11.90	8.64	6.11

End Voltage 1.85 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	19.85	17.84	16.24	13.83	12.09	7.07	4.00	2.82	2.11	1.79	1.32	0.94
RES 3 SOPzS 310	28.77	25.85	23.52	20.01	17.48	10.21	5.77	4.07	3.04	2.58	1.90	1.36
RES 3 SOPzS 390	36.14	32.49	29.58	25.19	22.01	12.87	7.28	5.14	3.85	3.27	2.40	1.72
RES 4 SOPzS 500	46.47	41.76	38.00	32.34	28.25	16.50	9.34	6.59	4.94	4.19	3.08	2.21
RES 5 SOPzS 605	56.43	50.67	46.08	39.16	34.18	19.91	11.25	7.94	5.94	5.04	3.70	2.65
RES 4 SOPzS 720	67.79	61.04	55.61	47.39	41.42	24.17	13.61	9.56	7.11	6.01	4.38	3.11
RES 5 SOPzS 860	81.74	73.54	66.95	56.97	49.74	28.95	16.28	11.42	8.48	7.17	5.22	3.71
RES 6 SOPzS 965	93.24	83.79	76.21	64.76	56.48	32.76	18.38	12.88	9.56	8.08	5.88	4.17
RES 7 SOPzS 1270	117.69	106.10	96.75	82.54	72.22	42.30	23.91	16.82	12.52	10.59	7.73	5.49
RES 8 SOPzS 1380	129.34	116.51	106.17	90.48	79.09	46.20	26.07	18.32	13.62	11.52	8.40	5.96

## Performance Data

Discharge Constant Current at 20°C (Amperes)

End Voltage 1.90 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	17.49	15.78	14.41	12.33	10.82	6.40	3.66	2.60	1.95	1.66	1.23	0.88
RES 3 SOPzS 310	25.13	22.67	20.69	17.69	15.50	9.16	5.24	3.73	2.80	2.39	1.76	1.27
RES 3 SOPzS 390	31.16	28.15	25.71	22.02	19.32	11.46	6.57	4.68	3.53	3.00	2.22	1.60
RES 4 SOPzS 500	39.66	35.82	32.71	28.00	24.56	14.57	8.38	5.98	4.51	3.85	2.85	2.05
RES 5 SOPzS 605	48.04	43.35	39.56	33.82	29.65	17.56	10.10	7.21	5.44	4.63	3.43	2.47
RES 4 SOPzS 720	56.71	51.36	47.01	40.35	35.47	21.14	12.17	8.65	6.50	5.52	4.07	2.91
RES 5 SOPzS 860	68.13	61.65	56.38	48.34	42.46	25.26	14.54	10.34	7.77	6.60	4.85	3.47
RES 6 SOPzS 965	77.00	69.60	63.61	54.48	47.81	28.41	16.35	11.62	8.72	7.41	5.45	3.89
RES 7 SOPzS 1270	98.07	88.96	81.53	70.12	61.74	37.03	21.48	15.34	11.55	9.83	7.25	5.19
RES 8 SOPzS 1380	107.15	97.11	88.95	76.43	67.24	40.28	23.34	16.66	12.54	10.67	7.86	5.63

End Voltage 1.94 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	14.57	13.21	12.10	10.41	9.17	5.50	3.19	2.28	1.72	1.47	1.09	0.79
RES 3 SOPzS 310	20.72	18.77	17.19	14.78	13.01	7.81	4.54	3.26	2.47	2.11	1.57	1.13
RES 3 SOPzS 390	25.33	22.98	21.07	18.15	16.00	9.67	5.66	4.07	3.09	2.64	1.96	1.42
RES 4 SOPzS 500	31.86	28.90	26.49	22.82	20.13	12.21	7.19	5.19	3.95	3.38	2.52	1.83
RES 5 SOPzS 605	38.53	34.92	31.99	27.53	24.27	14.72	8.68	6.27	4.77	4.09	3.05	2.21
RES 4 SOPzS 720	44.68	40.67	37.39	32.34	28.62	17.54	10.40	7.51	5.70	4.88	3.62	2.61
RES 5 SOPzS 860	53.53	48.68	44.73	38.66	34.20	20.98	12.45	9.00	6.83	5.84	4.34	3.13
RES 6 SOPzS 965	59.94	54.47	50.02	43.22	38.22	23.48	13.95	10.08	7.66	6.54	4.86	3.50
RES 7 SOPzS 1270	77.11	70.32	64.76	56.18	49.84	30.89	18.53	13.46	10.27	8.80	6.55	4.74
RES 8 SOPzS 1380	83.80	76.37	70.29	60.94	54.05	33.51	20.10	14.59	11.12	9.52	7.08	5.12

End Voltage 2.00 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	8.59	7.84	7.23	6.29	5.59	3.49	2.09	1.52	1.16	0.99	0.74	0.54
RES 3 SOPzS 310	11.98	10.94	10.10	8.80	7.83	4.93	2.99	2.18	1.68	1.44	1.07	0.78
RES 3 SOPzS 390	14.22	13.02	12.05	10.55	9.43	6.01	3.69	2.71	2.09	1.79	1.33	0.96
RES 4 SOPzS 500	17.50	16.07	14.90	13.08	11.73	7.59	4.70	3.49	2.69	2.32	1.73	1.24
RES 5 SOPzS 605	21.27	19.53	18.11	15.92	14.28	9.26	5.76	4.27	3.29	2.85	2.12	1.51
RES 4 SOPzS 720	23.92	22.11	20.61	18.26	16.49	10.91	6.87	5.13	3.96	3.41	2.54	1.83
RES 5 SOPzS 860	28.78	26.61	24.83	22.02	19.91	13.20	8.33	6.21	4.80	4.15	3.09	2.20
RES 6 SOPzS 965	31.85	29.49	27.54	24.48	22.17	14.76	9.34	6.92	5.35	4.65	3.48	2.42
RES 7 SOPzS 1270	41.75	38.73	36.24	32.30	29.31	19.76	12.69	9.52	7.45	6.40	4.81	3.54
RES 8 SOPzS 1380	45.20	41.96	39.27	35.02	31.81	21.45	13.74	10.35	8.04	6.92	5.17	3.73



## Performance Data

## Discharge Constant Power at 20°C (Watts/cell)

End Voltage 1.60 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	127.79	85.44	66.25	54.89	47.21	41.62	37.34	33.95	28.87	25.23	20.30	17.08
RES 3 SOPzS 310	188.58	125.64	97.21	80.40	69.06	60.82	54.53	49.54	42.08	36.74	29.51	24.80
RES 3 SOPzS 390	239.18	159.74	123.63	102.25	87.82	77.33	69.31	62.96	53.47	46.67	37.47	31.49
RES 4 SOPzS 500	313.59	208.78	161.23	133.14	114.19	100.45	89.97	81.67	69.27	60.40	48.43	40.65
RES 5 SOPzS 605	386.50	256.34	197.46	162.77	139.39	122.47	109.59	99.40	84.21	73.35	58.73	49.24
RES 4 SOPzS 720	461.50	310.02	239.92	198.31	170.26	149.82	134.16	121.74	103.16	89.85	71.89	60.22
RES 5 SOPzS 860	566.48	379.11	292.55	241.32	206.84	181.76	162.58	147.38	124.69	108.47	86.62	72.46
RES 6 SOPzS 965	663.70	441.95	339.81	279.56	239.09	209.72	187.32	169.59	143.19	124.36	99.07	82.73
RES 7 SOPzS 1270	798.09	539.38	418.16	345.94	297.18	261.61	234.35	212.70	180.30	157.08	125.73	105.35
RES 8 SOPzS 1380	894.39	602.45	465.76	384.56	329.81	289.92	259.42	235.22	199.07	173.22	138.38	115.80

End Voltage 1.65 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	126.51	84.86	65.86	54.58	46.96	41.40	37.15	33.78	28.73	25.11	20.20	17.00
RES 3 SOPzS 310	186.54	124.75	96.61	79.94	68.68	60.49	54.24	49.28	41.87	36.55	29.37	24.68
RES 3 SOPzS 390	236.04	158.46	122.79	101.61	87.29	76.88	68.92	62.62	53.19	46.42	37.28	31.33
RES 4 SOPzS 500	309.09	206.99	160.08	132.27	113.48	99.84	89.44	81.20	68.89	60.07	48.18	40.44
RES 5 SOPzS 605	380.72	254.09	196.01	161.67	138.50	121.72	108.94	98.82	83.73	72.94	58.41	48.97
RES 4 SOPzS 720	451.07	306.62	237.87	196.82	169.07	148.82	133.30	120.98	102.54	89.32	71.48	59.88
RES 5 SOPzS 860	553.03	374.77	289.98	239.45	205.35	180.51	161.50	146.43	123.92	107.81	86.11	72.05
RES 6 SOPzS 965	646.70	436.57	336.64	277.28	237.27	208.21	186.01	168.45	142.26	123.57	98.47	82.24
RES 7 SOPzS 1270	777.30	532.91	414.37	343.24	295.04	259.82	232.80	211.33	179.19	156.14	125.00	104.75
RES 8 SOPzS 1380	869.56	594.81	461.37	381.43	327.33	287.87	257.64	233.66	197.81	172.15	137.56	115.12

End Voltage 1.70 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	124.16	83.93	65.27	54.13	46.60	41.09	36.88	33.54	28.54	24.94	20.07	16.89
RES 3 SOPzS 310	182.78	123.28	95.68	79.24	68.11	60.02	53.82	48.91	41.57	36.30	29.17	24.52
RES 3 SOPzS 390	230.04	156.28	121.46	100.63	86.51	76.22	68.36	62.11	52.78	46.08	37.01	31.10
RES 4 SOPzS 500	300.50	203.91	158.21	130.90	112.39	98.94	88.65	80.51	68.33	59.60	47.81	40.14
RES 5 SOPzS 605	369.72	250.17	193.66	159.95	137.14	120.59	107.96	97.96	83.03	72.35	57.95	48.60
RES 4 SOPzS 720	432.73	300.29	234.36	194.38	167.18	147.26	131.98	119.82	101.61	88.54	70.88	59.40
RES 5 SOPzS 860	529.66	366.69	285.51	236.38	202.97	178.56	159.84	144.98	122.76	106.84	85.38	71.45
RES 6 SOPzS 965	617.69	426.38	331.08	273.47	234.34	205.82	183.99	166.68	140.85	122.40	97.58	81.52
RES 7 SOPzS 1270	742.42	520.65	407.78	338.73	291.58	257.00	230.41	209.25	177.53	154.75	123.94	103.90
RES 8 SOPzS 1380	828.96	580.30	453.59	376.17	323.30	284.60	254.88	231.26	195.90	170.55	136.35	114.15



## Performance Data

### Discharge Constant Power at 20°C (Watts/cell)

End Voltage 1.75 V/cell												
	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	16 h	20 h
RES 2 SOPzS 215	119.60	82.17	64.21	53.37	45.99	40.59	36.45	33.16	28.23	24.68	19.87	16.72
RES 3 SOPzS 310	175.57	120.45	93.99	78.03	67.16	59.22	53.14	48.32	41.08	35.89	28.85	24.26
RES 3 SOPzS 390	219.29	151.96	118.94	98.87	85.14	75.10	67.40	61.28	52.11	45.51	36.58	30.75
RES 4 SOPzS 500	285.43	197.71	154.61	128.38	110.45	97.35	87.31	79.33	67.39	58.81	47.21	39.65
RES 5 SOPzS 605	350.71	242.29	189.10	156.77	134.68	118.59	106.27	96.49	81.86	71.37	57.21	48.00
RES 4 SOPzS 720	404.93	287.82	227.27	189.63	163.61	144.42	129.60	117.78	100.01	87.22	69.90	58.62
RES 5 SOPzS 860	494.72	350.86	276.50	230.33	198.44	174.95	156.84	142.41	120.75	105.18	84.15	70.48
RES 6 SOPzS 965	575.00	406.75	319.80	265.88	228.68	201.32	180.25	163.49	138.37	120.36	96.08	80.34
RES 7 SOPzS 1270	691.58	497.16	394.37	329.83	284.97	251.77	226.07	205.55	174.64	152.38	122.20	102.52
RES 8 SOPzS 1380	770.20	552.83	437.81	365.66	315.53	278.45	249.80	226.92	192.54	167.80	134.33	112.56

End Voltage 1.80 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	21.15	18.95	17.20	14.59	12.72	7.38	4.15	2.92	2.18	1.85	1.36	0.97
RES 3 SOPzS 310	30.83	27.61	25.05	21.23	18.49	10.71	6.00	4.22	3.15	2.67	1.96	1.40
RES 3 SOPzS 390	39.06	34.99	31.76	26.92	23.46	13.58	7.61	5.35	3.99	3.38	2.48	1.77
RES 4 SOPzS 500	50.55	45.26	41.07	34.79	30.29	17.50	9.79	6.88	5.13	4.34	3.18	2.27
RES 5 SOPzS 605	61.51	55.04	49.90	42.22	36.73	21.15	11.81	8.28	6.17	5.23	3.82	2.73
RES 4 SOPzS 720	74.76	67.02	60.85	51.56	44.88	25.82	14.33	9.99	7.38	6.23	4.52	3.20
RES 5 SOPzS 860	90.42	80.98	73.46	62.17	54.06	30.99	17.15	11.93	8.81	7.42	5.39	3.81
RES 6 SOPzS 965	103.76	92.84	84.13	71.09	61.74	35.25	19.44	13.49	9.95	8.38	6.07	4.29
RES 7 SOPzS 1270	130.22	116.84	106.14	90.02	78.40	45.18	25.12	17.52	12.96	10.93	7.94	5.63
RES 8 SOPzS 1380	143.72	128.85	116.96	99.08	86.20	49.52	27.45	19.11	14.12	11.90	8.64	6.11

End Voltage 1.85 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	37.37	33.71	30.77	26.32	23.09	13.69	7.84	5.57	4.19	3.57	2.64	1.90
RES 3 SOPzS 310	54.10	48.76	44.49	38.03	33.34	19.73	11.29	8.03	6.04	5.14	3.80	2.74
RES 3 SOPzS 390	67.77	61.15	55.82	47.76	41.89	24.83	14.23	10.13	7.63	6.50	4.80	3.46
RES 4 SOPzS 500	87.04	78.49	71.62	61.23	53.68	31.78	18.23	12.98	9.78	8.33	6.16	4.44
RES 5 SOPzS 605	105.70	95.24	86.84	74.15	64.96	38.36	21.97	15.64	11.78	10.03	7.42	5.34
RES 4 SOPzS 720	126.50	114.30	104.44	89.43	78.47	46.46	26.55	18.81	14.09	11.96	8.79	6.29
RES 5 SOPzS 860	152.55	137.71	125.73	107.50	94.23	55.64	31.76	22.48	16.83	14.28	10.49	7.50
RES 6 SOPzS 965	173.90	156.81	143.04	122.12	106.92	62.92	35.85	25.35	18.96	16.09	11.80	8.43
RES 7 SOPzS 1270	219.42	198.50	181.54	155.65	136.72	81.27	46.68	33.16	24.89	21.15	15.55	11.14
RES 8 SOPzS 1380	241.08	217.91	199.15	170.55	149.67	88.73	50.88	36.11	27.07	22.99	16.90	12.09

## Performance Data

### Discharge Constant Power at 20°C (Watts/cell)

End Voltage 1.90 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	33.25	30.10	27.55	23.67	20.83	12.47	7.21	5.15	3.89	3.32	2.47	1.78
RES 3 SOPzS 310	47.75	43.20	39.52	33.92	29.83	17.84	10.33	7.39	5.60	4.78	3.55	2.57
RES 3 SOPzS 390	59.13	53.55	49.04	42.15	37.11	22.27	12.94	9.28	7.03	6.01	4.47	3.24
RES 4 SOPzS 500	75.22	68.10	62.34	53.56	47.13	28.30	16.49	11.86	9.00	7.70	5.73	4.15
RES 5 SOPzS 605	91.13	82.44	75.41	64.71	56.90	34.12	19.88	14.29	10.85	9.28	6.91	5.01
RES 4 SOPzS 720	107.37	97.48	89.42	77.05	67.94	40.99	23.91	17.15	12.97	11.06	8.20	5.91
RES 5 SOPzS 860	129.00	117.01	107.26	92.30	81.33	49.00	28.60	20.51	15.51	13.23	9.80	7.06
RES 6 SOPzS 965	145.78	132.09	120.98	103.99	91.54	55.09	32.15	23.05	17.42	14.86	11.00	7.92
RES 7 SOPzS 1270	185.60	168.76	155.01	133.82	118.19	71.81	42.25	30.45	23.11	19.74	14.67	10.58
RES 8 SOPzS 1380	202.77	184.23	169.10	145.84	128.71	78.09	45.92	33.07	25.08	21.42	15.90	11.46

End Voltage 1.94 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	28.05	25.48	23.39	20.19	17.83	10.81	6.33	4.55	3.46	2.96	2.21	1.60
RES 3 SOPzS 310	39.89	36.21	33.22	28.64	25.29	15.35	9.02	6.51	4.96	4.25	3.18	2.31
RES 3 SOPzS 390	48.71	44.28	40.67	35.14	31.07	18.97	11.22	8.13	6.21	5.32	3.98	2.90
RES 4 SOPzS 500	61.27	55.67	51.13	44.17	39.05	23.94	14.26	10.37	7.94	6.82	5.11	3.73
RES 5 SOPzS 605	74.10	67.28	61.75	53.30	47.11	28.87	17.22	12.54	9.60	8.25	6.18	4.51
RES 4 SOPzS 720	85.88	78.29	72.09	62.54	55.47	34.36	20.62	15.01	11.47	9.84	7.35	5.34
RES 5 SOPzS 860	102.89	93.73	86.26	74.76	66.30	41.10	24.71	17.99	13.76	11.80	8.82	6.41
RES 6 SOPzS 965	115.20	104.86	96.45	83.55	74.08	45.99	27.68	20.16	15.42	13.22	9.88	7.17
RES 7 SOPzS 1270	148.18	135.35	124.84	108.60	96.57	60.50	36.77	26.94	20.69	17.79	13.33	9.71
RES 8 SOPzS 1380	161.05	146.99	135.51	117.80	104.73	65.61	39.88	29.21	22.41	19.26	14.43	10.50

End Voltage 2.00 V/cell												
	6 h	7 h	8 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h	168 h	240 h
RES 2 SOPzS 215	16.92	15.47	14.28	12.45	11.09	6.97	4.22	3.09	2.37	2.03	1.52	1.12
RES 3 SOPzS 310	23.59	21.58	19.93	17.40	15.52	9.85	6.03	4.44	3.43	2.94	2.20	1.61
RES 3 SOPzS 390	27.99	25.67	23.78	20.85	18.67	12.00	7.42	5.49	4.28	3.65	2.74	1.99
RES 4 SOPzS 500	34.42	31.64	29.36	25.83	23.21	15.13	9.50	7.09	5.50	4.74	3.56	2.58
RES 5 SOPzS 605	41.83	38.44	35.69	31.42	28.25	18.48	11.62	8.69	6.74	5.82	4.36	3.15
RES 4 SOPzS 720	47.00	43.48	40.57	36.02	32.60	21.76	13.87	10.41	8.11	6.98	5.24	3.80
RES 5 SOPzS 860	56.53	52.33	48.85	43.42	39.32	26.33	16.81	12.64	9.82	8.50	6.36	4.57
RES 6 SOPzS 965	62.51	57.93	54.16	48.23	43.76	29.43	18.82	14.07	10.93	9.58	7.15	5.02
RES 7 SOPzS 1270	81.99	76.14	71.29	63.67	57.88	39.37	25.57	19.33	15.20	13.13	9.94	7.40
RES 8 SOPzS 1380	88.72	82.43	77.22	69.02	62.78	42.76	27.75	20.99	16.49	14.18	10.68	7.79