RES SOPzV

Technical Data



BATTERIES SOLAR PV WIND GENSET GRID

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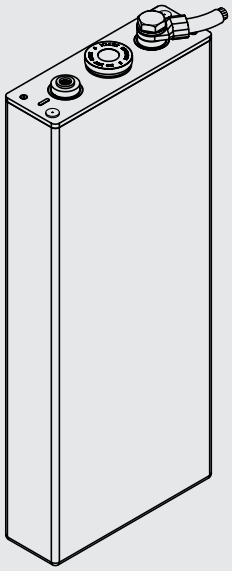
Product Range

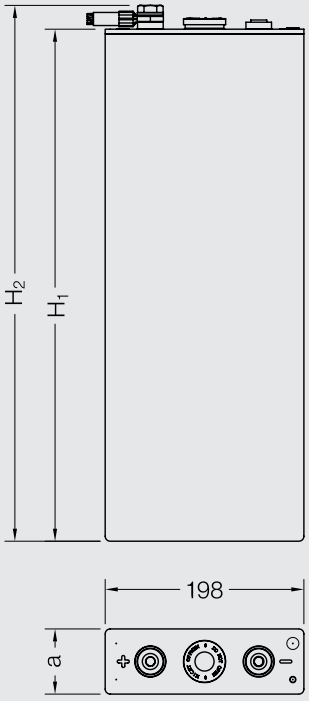
2V Cell Type	Capacity (Ah at 20°C) C120 Uf=1.85V	C48 Uf=1.80V	C24 Uf=1.80V	C12 Uf=1.75V	Dimensions Length (mm)	Width (mm)	Height$_1$ (mm)	Height$_2$ (mm)	Weight kg	Internal Resistance (mOhm)	Short Circuit Current (A)
RES 2 SOPzV 150	150	145	135	126	198	47	343	370	9.0	1.58	1280
RES 3 SOPzV 225	225	218	203	189	198	65	343	370	12.7	1.08	1900
RES 2 SOPzV 280	284	279	260	244	198	47	568	595	15.4	1.08	1900
RES 3 SOPzV 425	426	419	390	366	198	65	568	595	22.0	0.72	2840
RES 4 SOPzV 565	568	558	520	488	198	83	568	595	28.7	0.54	3780
RES 5 SOPzV 710	710	698	650	611	198	101	568	595	35.3	0.43	4740
RES 6 SOPzV 850	852	838	780	733	198	119	568	595	42.1	0.36	5680
RES 7 SOPzV 990	994	977	911	855	198	137	568	595	48.8	0.31	6620
RES 8 SOPzV 1135	1136	1116	1041	977	198	155	568	595	55.5	0.27	7580
RES 7 SOPzV 1190	1190	1171	1087	1024	198	137	713	740	60.0	0.31	6560
RES 8 SOPzV 1360	1360	1338	1242	1170	198	155	713	740	68.1	0.27	7500

Technical details may be subject to alterations.

Drawings







Technical Features

Design

Positive plates	Tubular plates with corrosion resistant Lead Calcium Tin Alloy.
Negative plates	Pasted negative plates of grid design with optimized Lead Calcium Tin Alloy.
Separators	Low resistance, microporous PVC.
Electrolyte	Diluted sulphuric acid fixed as GEL.
Container, lid material	Polypropylene (PP) with lid welding, trimming and tightness control.
Poles	Premium design with insert and rubber seal in the lid for hardness and acid resistance. M10 brass inlay. Impedance measurements possible.
Connectors	Accurate voltage measurements possible due to bolt-on type design. Steel bolts with plastic encapsulated heads. Insulated flexible connectors.
Pressure relief valve	Relief valve with integral flame arrestor.

Operation

Number of cycles	2000 cycles for 60% DoD at 20ºC.
Design life	15 years (stand-by float, 20ºC).
Maintenance	No water refilling during life.
Operating temperature	Recommended 15ºC to 35ºC. Min: -20ºC / Max: 45ºC.
Storage Time	Maximum shelf life up to 6 months at 20ºC, 4 months at 30ºC or 2 months at 40ºC.
Self discharge rate	Approx. 2 % per month at 20ºC.

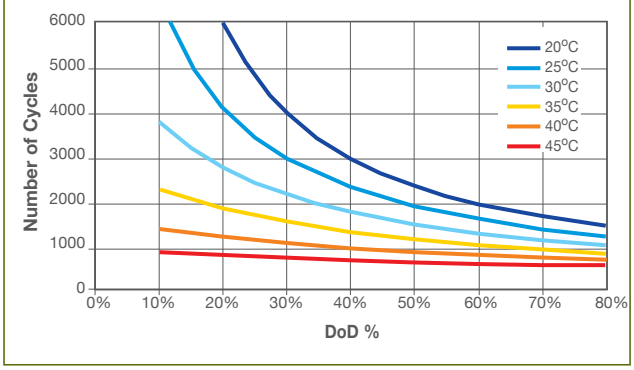
Certified Quality

- 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
- Tested according to IEC 60896-21 and fully compliant with IEC 60896-22 requirements for valve regulated batteries
- Compliant with the safety requirements of EN 50272-2 for stationary batteries

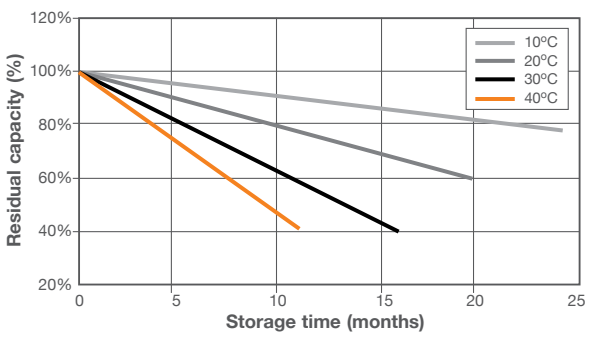
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Performance Curves

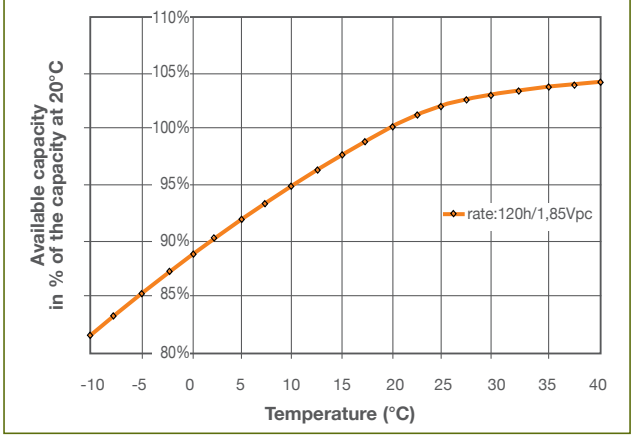
Expected Number of Cycles vs. DoD



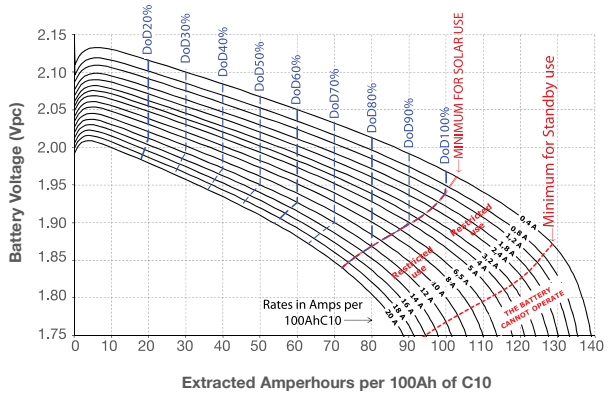
Self-discharge Characteristics



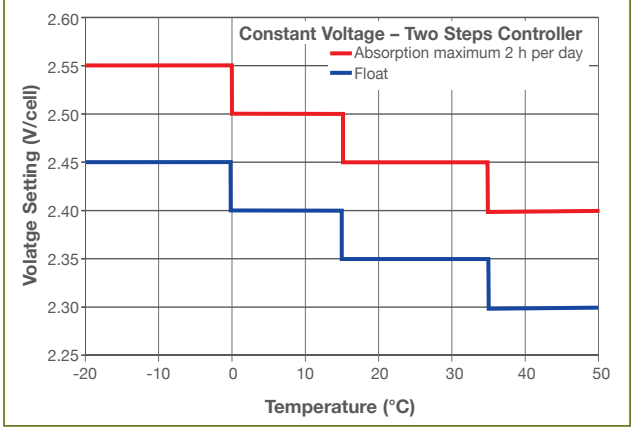
Capacity vs. Temperature



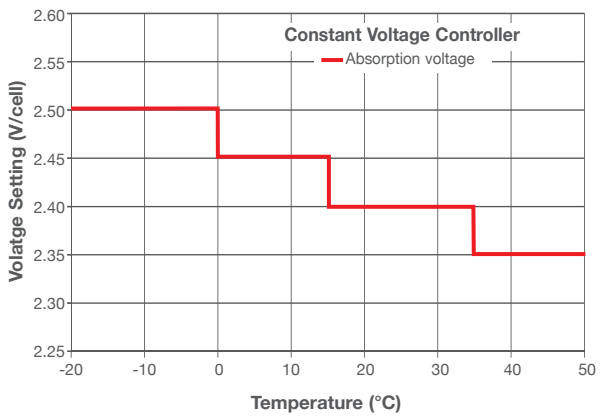
Low-voltage Disconnect Settings



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 SOPzV 150	74.56	45.47	33.45	26.74	22.38	19.31	17.02	15.24	12.64	10.83	8.46	6.97
RES 3 SOPzV 225	111.83	68.20	50.18	40.12	33.58	28.97	25.53	22.86	18.96	16.25	12.69	10.45
RES 2 SOPzV 280	142.93	87.55	64.61	51.70	43.33	37.42	33.01	29.57	24.55	21.03	16.42	13.50
RES 3 SOPzV 425	214.39	131.33	96.91	77.55	64.99	56.13	49.51	44.36	36.82	31.55	24.62	20.25
RES 4 SOPzV 565	285.86	175.10	129.21	103.40	86.65	74.84	66.01	59.14	49.10	42.07	32.83	26.99
RES 5 SOPzV 710	357.32	218.88	161.52	129.25	108.31	93.55	82.52	73.93	61.37	52.59	41.04	33.74
RES 6 SOPzV 850	428.78	262.65	193.82	155.10	129.98	112.26	99.02	88.71	73.64	63.10	49.25	40.49
RES 7 SOPzV 990	500.25	306.43	226.12	180.94	151.64	130.97	115.52	103.50	85.92	73.62	57.45	47.24
RES 8 SOPzV 1135	571.71	350.21	258.43	206.79	173.30	149.68	132.03	118.29	98.19	84.14	65.66	53.99
RES 7 SOPzV 1190	593.16	366.98	271.34	217.33	182.24	157.45	138.93	124.49	103.38	88.61	69.17	56.89
RES 8 SOPzV 1360	677.90	419.41	310.11	248.38	208.27	179.95	158.77	142.28	118.15	101.26	79.06	65.02

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 SOPzV 150	73.68	45.06	33.17	26.53	22.21	19.16	16.89	15.12	12.55	10.75	8.40	6.92
RES 3 SOPzV 225	110.52	67.59	49.76	39.80	33.31	28.74	25.33	22.69	18.82	16.13	12.60	10.37
RES 2 SOPzV 280	139.92	86.60	64.03	51.27	42.99	37.14	32.76	29.36	24.37	20.89	16.30	13.41
RES 3 SOPzV 425	209.88	129.90	96.04	76.91	64.48	55.71	49.15	44.04	36.56	31.33	24.46	20.11
RES 4 SOPzV 565	279.84	173.21	128.06	102.55	85.98	74.28	65.53	58.72	48.75	41.78	32.61	26.81
RES 5 SOPzV 710	349.80	216.51	160.07	128.19	107.47	92.85	81.91	73.39	60.94	52.22	40.76	33.52
RES 6 SOPzV 850	419.75	259.81	192.08	153.82	128.97	111.42	98.29	88.07	73.12	62.67	48.91	40.22
RES 7 SOPzV 990	489.71	303.11	224.10	179.46	150.46	129.99	114.68	102.75	85.31	73.11	57.06	46.92
RES 8 SOPzV 1135	559.67	346.41	256.11	205.10	171.96	148.56	131.06	117.43	97.50	83.55	65.21	53.63
RES 7 SOPzV 1190	572.21	361.79	268.42	215.27	180.62	156.12	137.79	123.50	102.58	87.93	68.66	56.48
RES 8 SOPzV 1360	653.96	413.47	306.77	246.02	206.43	178.43	157.47	141.14	117.23	100.50	78.47	64.55

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 SOPzV 150	72.25	44.47	32.79	26.24	21.97	18.96	16.72	14.97	12.42	10.64	8.32	6.85
RES 3 SOPzV 225	108.38	66.70	49.18	39.36	32.96	28.44	25.07	22.45	18.63	15.97	12.47	10.27
RES 2 SOPzV 280	133.89	84.93	63.10	50.62	42.48	36.72	32.41	29.05	24.13	20.68	16.15	13.28
RES 3 SOPzV 425	200.84	127.40	94.64	75.93	63.72	55.09	48.62	43.57	36.19	31.02	24.22	19.92
RES 4 SOPzV 565	267.79	169.86	126.19	101.24	84.97	73.45	64.82	58.10	48.26	41.36	32.29	26.56
RES 5 SOPzV 710	334.73	212.33	157.74	126.55	106.21	91.81	81.03	72.62	60.32	51.70	40.37	33.20
RES 6 SOPzV 850	401.68	254.79	189.29	151.86	127.45	110.17	97.23	87.15	72.39	62.05	48.44	39.84
RES 7 SOPzV 990	468.63	297.26	220.84	177.17	148.69	128.53	113.44	101.67	84.45	72.39	56.52	46.48
RES 8 SOPzV 1135	535.57	339.72	252.39	202.48	169.93	146.90	129.65	116.20	96.51	82.73	64.59	53.12
RES 7 SOPzV 1190	538.12	351.70	263.36	211.89	178.09	154.08	136.07	122.01	101.41	86.96	67.93	55.90
RES 8 SOPzV 1360	614.99	401.95	300.98	242.16	203.53	176.10	155.51	139.44	115.89	99.38	77.64	63.88

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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 SOPzV 150	69.47	43.48	32.18	25.79	21.62	18.67	16.46	14.74	12.24	10.49	8.20	6.75
RES 3 SOPzV 225	104.20	65.22	48.28	38.69	32.43	28.00	24.69	22.12	18.36	15.74	12.30	10.13
RES 2 SOPzV 280	124.68	81.45	61.26	49.41	41.58	36.00	31.81	28.54	23.73	20.35	15.90	13.09
RES 3 SOPzV 425	187.02	122.17	91.89	74.11	62.37	54.01	47.72	42.80	35.59	30.53	23.85	19.63
RES 4 SOPzV 565	249.36	162.89	122.52	98.82	83.16	72.01	63.62	57.07	47.45	40.70	31.80	26.17
RES 5 SOPzV 710	311.70	203.62	153.15	123.52	103.95	90.01	79.53	71.34	59.31	50.88	39.76	32.72
RES 6 SOPzV 850	374.04	244.34	183.78	148.22	124.74	108.01	95.44	85.61	71.18	61.05	47.71	39.26
RES 7 SOPzV 990	436.38	285.07	214.41	172.93	145.54	126.02	111.34	99.87	83.04	71.23	55.66	45.80
RES 8 SOPzV 1135	498.72	325.79	245.04	197.63	166.33	144.02	127.25	114.14	94.90	81.40	63.61	52.35
RES 7 SOPzV 1190	494.22	332.07	252.80	205.14	173.22	150.28	132.96	119.38	99.38	85.31	66.74	54.96
RES 8 SOPzV 1360	564.82	379.50	288.91	234.44	197.96	171.75	151.96	136.43	113.58	97.50	76.27	62.81

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 SOPzV 150	18.16	16.03	14.37	11.94	10.24	5.63	3.02	2.08	1.54	1.29	0.94	0.67
RES 3 SOPzV 225	27.24	24.04	21.55	17.91	15.36	8.44	4.54	3.13	2.30	1.94	1.41	1.00
RES 2 SOPzV 280	34.48	30.55	27.47	22.91	19.69	10.84	5.82	3.99	2.93	2.46	1.78	1.27
RES 3 SOPzV 425	51.72	45.83	41.20	34.37	29.54	16.26	8.72	5.99	4.39	3.69	2.67	1.90
RES 4 SOPzV 565	68.96	61.11	54.94	45.82	39.39	21.68	11.63	7.99	5.86	4.92	3.57	2.53
RES 5 SOPzV 710	86.20	76.39	68.67	57.28	49.23	27.10	14.54	9.98	7.32	6.15	4.46	3.16
RES 6 SOPzV 850	103.44	91.66	82.41	68.73	59.08	32.52	17.45	11.98	8.79	7.38	5.35	3.80
RES 7 SOPzV 990	120.68	106.94	96.14	80.19	68.93	37.94	20.35	13.98	10.25	8.62	6.24	4.43
RES 8 SOPzV 1135	137.92	122.22	109.88	91.64	78.77	43.36	23.26	15.97	11.71	9.85	7.13	5.06
RES 7 SOPzV 1190	142.21	126.30	113.74	95.09	81.87	45.28	24.39	16.78	12.32	10.36	7.51	5.34
RES 8 SOPzV 1360	162.53	144.35	129.98	108.67	93.57	51.75	27.87	19.18	14.08	11.84	8.59	6.10

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 SOPzV 150	17.12	15.15	13.61	11.34	9.75	5.39	2.91	2.01	1.48	1.25	0.91	0.65
RES 3 SOPzV 225	25.68	22.73	20.42	17.02	14.63	8.08	4.36	3.01	2.22	1.87	1.37	0.97
RES 2 SOPzV 280	31.70	28.18	25.39	21.26	18.33	10.20	5.53	3.82	2.81	2.37	1.72	1.22
RES 3 SOPzV 425	47.55	42.26	38.09	31.89	27.50	15.30	8.29	5.73	4.21	3.55	2.58	1.84
RES 4 SOPzV 565	63.40	56.35	50.79	42.53	36.67	20.40	11.06	7.63	5.62	4.73	3.44	2.45
RES 5 SOPzV 710	79.25	70.44	63.48	53.16	45.83	25.50	13.82	9.54	7.02	5.92	4.30	3.06
RES 6 SOPzV 850	95.09	84.53	76.18	63.79	55.00	30.60	16.59	11.45	8.43	7.10	5.16	3.67
RES 7 SOPzV 990	110.94	98.61	88.87	74.42	64.16	35.70	19.35	13.36	9.83	8.28	6.02	4.29
RES 8 SOPzV 1135	126.79	112.70	101.57	85.05	73.33	40.80	22.12	15.27	11.24	9.47	6.88	4.90
RES 7 SOPzV 1190	129.19	115.08	103.88	87.19	75.30	42.14	22.99	15.93	11.76	9.92	7.22	5.15
RES 8 SOPzV 1360	147.65	131.51	118.72	99.65	86.06	48.16	26.27	18.21	13.44	11.33	8.25	5.88

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 SOPzV 150	15.28	13.57	12.22	10.23	8.82	4.92	2.68	1.86	1.38	1.16	0.85	0.61
RES 3 SOPzV 225	22.92	20.36	18.34	15.34	13.23	7.38	4.02	2.79	2.07	1.75	1.28	0.91
RES 2 SOPzV 280	27.85	24.83	22.43	18.85	16.29	9.15	5.01	3.48	2.58	2.18	1.59	1.14
RES 3 SOPzV 425	41.78	37.24	33.64	28.27	24.44	13.73	7.52	5.22	3.87	3.27	2.39	1.71
RES 4 SOPzV 565	55.71	49.65	44.86	37.69	32.58	18.31	10.03	6.96	5.15	4.35	3.18	2.28
RES 5 SOPzV 710	69.63	62.07	56.07	47.11	40.73	22.89	12.53	8.70	6.44	5.44	3.98	2.85
RES 6 SOPzV 850	83.56	74.48	67.28	56.54	48.87	27.46	15.04	10.45	7.73	6.53	4.77	3.42
RES 7 SOPzV 990	97.49	86.90	78.50	65.96	57.02	32.04	17.55	12.19	9.02	7.62	5.57	3.99
RES 8 SOPzV 1135	111.41	99.31	89.71	75.38	65.17	36.62	20.05	13.93	10.31	8.71	6.37	4.56
RES 7 SOPzV 1190	111.82	99.93	90.45	76.23	66.04	37.41	20.67	14.42	10.71	9.06	6.64	4.76
RES 8 SOPzV 1360	127.79	114.21	103.37	87.12	75.48	42.76	23.62	16.48	12.24	10.36	7.59	5.44

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 SOPzV 150	13.30	11.85	10.69	8.98	7.77	4.38	2.40	1.68	1.25	1.06	0.77	0.56
RES 3 SOPzV 225	19.95	17.77	16.04	13.47	11.65	6.56	3.61	2.51	1.87	1.58	1.16	0.83
RES 2 SOPzV 280	23.96	21.42	19.40	16.36	14.19	8.07	4.47	3.12	2.32	1.96	1.44	1.04
RES 3 SOPzV 425	35.94	32.13	29.10	24.55	21.29	12.11	6.70	4.68	3.48	2.95	2.16	1.56
RES 4 SOPzV 565	47.92	42.84	38.80	32.73	28.38	16.14	8.93	6.24	4.64	3.93	2.89	2.08
RES 5 SOPzV 710	59.90	53.55	48.50	40.91	35.48	20.18	11.17	7.80	5.80	4.91	3.61	2.60
RES 6 SOPzV 850	71.88	64.26	58.20	49.09	42.57	24.21	13.40	9.36	6.96	5.89	4.33	3.11
RES 7 SOPzV 990	83.85	74.97	67.90	57.28	49.67	28.25	15.64	10.92	8.12	6.88	5.05	3.63
RES 8 SOPzV 1135	95.83	85.68	77.60	65.46	56.76	32.28	17.87	12.48	9.28	7.86	5.77	4.15
RES 7 SOPzV 1190	94.54	84.78	76.95	65.16	56.67	32.61	18.27	12.84	9.59	8.14	5.99	4.32
RES 8 SOPzV 1360	108.05	96.89	87.95	74.47	64.77	37.27	20.88	14.67	10.96	9.30	6.85	4.94

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 SOPzV 150	9.54	8.55	7.75	6.57	5.72	3.30	1.85	1.31	0.98	0.83	0.62	0.45
RES 3 SOPzV 225	14.31	12.82	11.63	9.85	8.57	4.95	2.78	1.96	1.47	1.25	0.92	0.67
RES 2 SOPzV 280	16.85	15.16	13.80	11.75	10.28	6.03	3.43	2.43	1.82	1.55	1.15	0.84
RES 3 SOPzV 425	25.27	22.74	20.70	17.63	15.41	9.05	5.14	3.64	2.73	2.33	1.73	1.26
RES 4 SOPzV 565	33.69	30.32	27.60	23.51	20.55	12.06	6.85	4.85	3.65	3.11	2.31	1.68
RES 5 SOPzV 710	42.12	37.90	34.50	29.39	25.69	15.08	8.56	6.07	4.56	3.88	2.88	2.10
RES 6 SOPzV 850	50.54	45.48	41.41	35.26	30.83	18.09	10.28	7.28	5.47	4.66	3.46	2.52
RES 7 SOPzV 990	58.96	53.05	48.31	41.14	35.96	21.11	11.99	8.49	6.38	5.44	4.03	2.94
RES 8 SOPzV 1135	67.39	60.63	55.21	47.02	41.10	24.12	13.70	9.71	7.29	6.21	4.61	3.36
RES 7 SOPzV 1190	63.94	57.77	52.79	45.24	39.75	23.83	13.80	9.86	7.45	6.37	4.64	3.21
RES 8 SOPzV 1360	73.07	66.02	60.33	51.70	45.43	27.23	15.77	11.27	8.52	7.28	5.30	3.67

SUNLIGHT

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 SOPzV 150	132.06	83.20	62.11	50.10	42.19	36.57	32.35	29.05	24.22	20.83	16.36	13.52
RES 3 SOPzV 225	198.09	124.80	93.17	75.15	63.29	54.86	48.52	43.58	36.33	31.24	24.53	20.28
RES 2 SOPzV 280	247.43	157.72	118.44	95.78	80.85	70.21	62.19	55.91	46.67	40.16	31.53	26.04
RES 3 SOPzV 425	371.14	236.58	177.66	143.66	121.27	105.31	93.29	83.87	70.00	60.23	47.30	39.07
RES 4 SOPzV 565	494.86	315.44	236.88	191.55	161.70	140.41	124.38	111.83	93.34	80.31	63.06	52.09
RES 5 SOPzV 710	618.57	394.31	296.10	239.44	202.12	175.51	155.48	139.78	116.67	100.39	78.83	65.11
RES 6 SOPzV 850	742.28	473.17	355.32	287.33	242.54	210.62	186.57	167.74	140.00	120.47	94.60	78.13
RES 7 SOPzV 990	866.00	552.03	414.54	335.22	282.97	245.72	217.67	195.69	163.34	140.54	110.36	91.16
RES 8 SOPzV 1135	989.71	630.89	473.76	383.11	323.39	280.82	248.76	223.65	186.67	160.62	126.13	104.18
RES 7 SOPzV 1190	1006.59	652.23	491.99	398.74	337.05	292.96	259.69	233.60	195.12	167.99	132.00	109.09
RES 8 SOPzV 1360	1150.39	745.40	562.27	455.71	385.20	334.81	296.79	266.97	223.00	191.98	150.86	124.67

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 SOPzV 150	130.76	82.58	61.69	49.77	41.92	36.34	32.15	28.87	24.07	20.70	16.26	13.44
RES 3 SOPzV 225	196.15	123.87	92.54	74.66	62.89	54.51	48.22	43.31	36.10	31.05	24.38	20.16
RES 2 SOPzV 280	242.79	156.25	117.55	95.12	80.32	69.77	61.81	55.58	46.40	39.93	31.36	25.90
RES 3 SOPzV 425	364.18	234.38	176.32	142.68	120.49	104.65	92.72	83.37	69.60	59.89	47.03	38.85
RES 4 SOPzV 565	485.57	312.51	235.09	190.24	160.65	139.54	123.62	111.16	92.79	79.85	62.71	51.80
RES 5 SOPzV 710	606.96	390.63	293.86	237.80	200.81	174.42	154.53	138.95	115.99	99.82	78.39	64.75
RES 6 SOPzV 850	728.36	468.76	352.64	285.36	240.97	209.31	185.44	166.74	139.19	119.78	94.07	77.70
RES 7 SOPzV 990	849.75	546.89	411.41	332.91	281.14	244.19	216.34	194.52	162.39	139.74	109.75	90.66
RES 8 SOPzV 1135	971.14	625.01	470.18	380.47	321.30	279.07	247.25	222.31	185.59	159.71	125.42	103.61
RES 7 SOPzV 1190	976.07	644.11	487.44	395.53	334.54	290.89	257.92	232.04	193.87	166.93	131.20	108.44
RES 8 SOPzV 1360	1115.51	736.12	557.07	452.03	382.33	332.44	294.76	265.19	221.57	190.78	149.94	123.93

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 SOPzV 150	128.57	81.65	61.08	49.31	41.54	36.02	31.87	28.62	23.86	20.53	16.12	13.33
RES 3 SOPzV 225	192.85	122.48	91.62	73.96	62.32	54.03	47.80	42.94	35.80	30.79	24.18	19.99
RES 2 SOPzV 280	233.83	153.55	116.04	94.06	79.51	69.10	61.24	55.08	46.00	39.59	31.10	25.70
RES 3 SOPzV 425	350.75	230.33	174.06	141.10	119.26	103.65	91.86	82.62	69.00	59.39	46.65	38.55
RES 4 SOPzV 565	467.66	307.11	232.09	188.13	159.02	138.20	122.48	110.16	92.00	79.18	62.20	51.39
RES 5 SOPzV 710	584.58	383.89	290.11	235.16	198.77	172.75	153.11	137.70	115.00	98.98	77.76	64.24
RES 6 SOPzV 850	701.49	460.66	348.13	282.19	238.53	207.29	183.73	165.24	138.00	118.78	93.31	77.09
RES 7 SOPzV 990	818.41	537.44	406.15	329.22	278.28	241.84	214.35	192.78	160.99	138.57	108.86	89.94
RES 8 SOPzV 1135	935.33	614.22	464.17	376.26	318.03	276.39	244.97	220.32	183.99	158.37	124.41	102.79
RES 7 SOPzV 1190	928.98	627.93	479.21	390.06	330.43	287.58	255.13	229.63	191.96	165.35	130.01	107.49
RES 8 SOPzV 1360	1061.69	717.64	547.67	445.78	377.64	328.66	291.58	262.44	219.39	188.97	148.59	122.84

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 SOPzV 150	124.22	80.05	60.09	48.58	40.96	35.53	31.44	28.25	23.56	20.27	15.93	13.17
RES 3 SOPzV 225	186.32	120.08	90.14	72.86	61.44	53.29	47.17	42.38	35.34	30.41	23.89	19.75
RES 2 SOPzV 280	220.47	147.92	112.99	92.04	78.00	67.89	60.24	54.22	45.32	39.04	30.69	25.37
RES 3 SOPzV 425	330.71	221.88	169.48	138.05	117.00	101.84	90.36	81.33	67.98	58.56	46.04	38.06
RES 4 SOPzV 565	440.94	295.84	225.97	184.07	156.00	135.79	120.48	108.44	90.65	78.07	61.38	50.74
RES 5 SOPzV 710	551.18	369.80	282.47	230.09	195.00	169.73	150.59	135.55	113.31	97.59	76.73	63.43
RES 6 SOPzV 850	661.41	443.76	338.96	276.11	234.00	203.68	180.71	162.65	135.97	117.11	92.07	76.11
RES 7 SOPzV 990	771.65	517.73	395.45	322.12	272.99	237.63	210.83	189.76	158.63	136.63	107.42	88.80
RES 8 SOPzV 1135	881.89	591.69	451.95	368.14	311.99	271.57	240.95	216.87	181.29	156.15	122.76	101.49
RES 7 SOPzV 1190	867.13	597.40	461.89	378.77	322.25	281.19	249.90	225.20	188.56	162.58	127.99	105.90
RES 8 SOPzV 1360	991.01	682.74	527.87	432.88	368.28	321.36	285.60	257.37	215.49	185.80	146.28	121.03

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 SOPzV 150	34.66	30.70	27.61	23.05	19.84	11.04	6.00	4.16	3.08	2.60	1.90	1.36
RES 3 SOPzV 225	51.99	46.06	41.41	34.57	29.76	16.55	9.00	6.24	4.62	3.91	2.86	2.04
RES 2 SOPzV 280	65.28	58.08	52.38	43.92	37.90	21.15	11.50	7.95	5.87	4.95	3.60	2.57
RES 3 SOPzV 425	97.92	87.11	78.57	65.87	56.85	31.73	17.24	11.93	8.80	7.42	5.41	3.86
RES 4 SOPzV 565	130.56	116.15	104.76	87.83	75.80	42.31	22.99	15.91	11.73	9.89	7.21	5.15
RES 5 SOPzV 710	163.20	145.19	130.95	109.79	94.75	52.88	28.74	19.88	14.67	12.37	9.01	6.43
RES 6 SOPzV 850	195.84	174.23	157.14	131.75	113.70	63.46	34.49	23.86	17.60	14.84	10.81	7.72
RES 7 SOPzV 990	228.48	203.26	183.33	153.70	132.65	74.03	40.24	27.84	20.53	17.32	12.62	9.01
RES 8 SOPzV 1135	261.11	232.30	209.52	175.66	151.59	84.61	45.98	31.81	23.47	19.79	14.42	10.29
RES 7 SOPzV 1190	267.51	238.52	215.51	181.15	156.62	87.89	47.99	33.29	24.60	20.76	15.14	10.82
RES 8 SOPzV 1360	305.72	272.60	246.30	207.03	178.99	100.44	54.85	38.05	28.12	23.73	17.31	12.37

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 SOPzV 150	32.85	29.17	26.28	22.00	18.97	10.61	5.79	4.03	2.99	2.53	1.85	1.32
RES 3 SOPzV 225	49.27	43.75	39.42	33.00	28.46	15.92	8.69	6.04	4.48	3.79	2.77	1.98
RES 2 SOPzV 280	60.51	53.97	48.78	41.03	35.51	20.02	10.98	7.64	5.65	4.78	3.49	2.50
RES 3 SOPzV 425	90.76	80.95	73.16	61.55	53.26	30.02	16.47	11.45	8.48	7.16	5.24	3.75
RES 4 SOPzV 565	121.02	107.93	97.55	82.07	71.01	40.03	21.97	15.27	11.31	9.55	6.98	5.00
RES 5 SOPzV 710	151.27	134.92	121.94	102.58	88.77	50.04	27.46	19.09	14.13	11.94	8.73	6.25
RES 6 SOPzV 850	181.53	161.90	146.33	123.10	106.52	60.05	32.95	22.91	16.96	14.33	10.47	7.50
RES 7 SOPzV 990	211.78	188.88	170.72	143.62	124.28	70.06	38.44	26.73	19.79	16.72	12.22	8.75
RES 8 SOPzV 1135	242.04	215.86	195.10	164.13	142.03	80.06	43.93	30.54	22.61	19.10	13.96	10.00
RES 7 SOPzV 1190	245.33	219.29	198.54	167.43	145.14	82.32	45.49	31.76	23.59	19.96	14.62	10.48
RES 8 SOPzV 1360	280.38	250.62	226.91	191.35	165.88	94.08	51.99	36.30	26.96	22.81	16.70	11.98

SUNLIGHT

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 SOPzV 150	29.60	26.36	23.80	20.00	17.30	9.76	5.37	3.75	2.79	2.37	1.74	1.25
RES 3 SOPzV 225	44.40	39.54	35.70	30.00	25.94	14.64	8.06	5.63	4.19	3.55	2.61	1.87
RES 2 SOPzV 280	53.75	48.06	43.52	36.72	31.85	18.12	10.04	7.02	5.22	4.42	3.25	2.34
RES 3 SOPzV 425	80.63	72.09	65.29	55.09	47.78	27.18	15.06	10.53	7.83	6.64	4.88	3.51
RES 4 SOPzV 565	107.51	96.12	87.05	73.45	63.71	36.24	20.08	14.04	10.45	8.85	6.50	4.68
RES 5 SOPzV 710	134.39	120.15	108.81	91.81	79.63	45.30	25.10	17.55	13.06	11.06	8.13	5.85
RES 6 SOPzV 850	161.26	144.18	130.57	110.17	95.56	54.35	30.12	21.06	15.67	13.27	9.75	7.02
RES 7 SOPzV 990	188.14	168.21	152.33	128.54	111.49	63.41	35.14	24.57	18.28	15.49	11.38	8.19
RES 8 SOPzV 1135	215.02	192.24	174.10	146.90	127.41	72.47	40.16	28.08	20.89	17.70	13.00	9.36
RES 7 SOPzV 1190	214.95	192.67	174.83	147.96	128.61	73.76	41.25	28.99	21.65	18.37	13.54	9.76
RES 8 SOPzV 1360	245.66	220.20	199.80	169.09	146.99	84.29	47.14	33.13	24.74	21.00	15.47	11.16

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 SOPzV 150	26.01	23.22	21.01	17.71	15.36	8.75	4.85	3.41	2.54	2.16	1.59	1.15
RES 3 SOPzV 225	39.01	34.84	31.52	26.57	23.04	13.12	7.28	5.11	3.82	3.24	2.39	1.72
RES 2 SOPzV 280	46.73	41.89	38.02	32.19	28.00	16.10	9.01	6.34	4.74	4.02	2.97	2.15
RES 3 SOPzV 425	70.10	62.84	57.03	48.29	42.00	24.15	13.52	9.50	7.10	6.03	4.45	3.22
RES 4 SOPzV 565	93.46	83.78	76.04	64.38	56.00	32.20	18.03	12.67	9.47	8.04	5.94	4.29
RES 5 SOPzV 710	116.83	104.73	95.05	80.48	70.00	40.26	22.54	15.84	11.84	10.05	7.42	5.37
RES 6 SOPzV 850	140.20	125.67	114.05	96.57	84.00	48.31	27.04	19.01	14.21	12.07	8.90	6.44
RES 7 SOPzV 990	163.56	146.62	133.06	112.67	98.00	56.36	31.55	22.18	16.57	14.08	10.39	7.51
RES 8 SOPzV 1135	186.93	167.56	152.07	128.77	112.00	64.41	36.06	25.35	18.94	16.09	11.87	8.59
RES 7 SOPzV 1190	183.90	165.30	150.35	127.76	111.44	64.84	36.76	26.01	19.53	16.62	12.30	8.92
RES 8 SOPzV 1360	210.17	188.92	171.83	146.02	127.36	74.10	42.01	29.73	22.32	19.00	14.06	10.19

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 SOPzV 150	18.97	17.03	15.48	13.15	11.47	6.68	3.79	2.69	2.02	1.73	1.28	0.93
RES 3 SOPzV 225	28.46	25.55	23.22	19.73	17.21	10.03	5.68	4.03	3.04	2.59	1.92	1.40
RES 2 SOPzV 280	33.46	30.17	27.51	23.50	20.59	12.20	7.00	4.99	3.77	3.22	2.40	1.76
RES 3 SOPzV 425	50.19	45.25	41.27	35.25	30.89	18.30	10.51	7.49	5.65	4.83	3.60	2.63
RES 4 SOPzV 565	66.92	60.33	55.02	47.00	41.18	24.41	14.01	9.98	7.54	6.44	4.80	3.51
RES 5 SOPzV 710	83.66	75.41	68.78	58.75	51.48	30.51	17.51	12.48	9.42	8.05	6.00	4.39
RES 6 SOPzV 850	100.39	90.50	82.54	70.49	61.77	36.61	21.01	14.98	11.31	9.66	7.20	5.27
RES 7 SOPzV 990	117.12	105.58	96.29	82.24	72.07	42.71	24.51	17.47	13.19	11.27	8.40	6.14
RES 8 SOPzV 1135	133.85	120.66	110.05	93.99	82.36	48.81	28.02	19.97	15.08	12.88	9.60	7.02
RES 7 SOPzV 1190	126.77	114.71	104.99	90.20	79.44	48.07	28.14	20.24	15.38	13.17	9.59	6.71
RES 8 SOPzV 1360	144.88	131.10	119.99	103.09	90.79	54.93	32.16	23.14	17.57	15.05	10.96	7.67

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