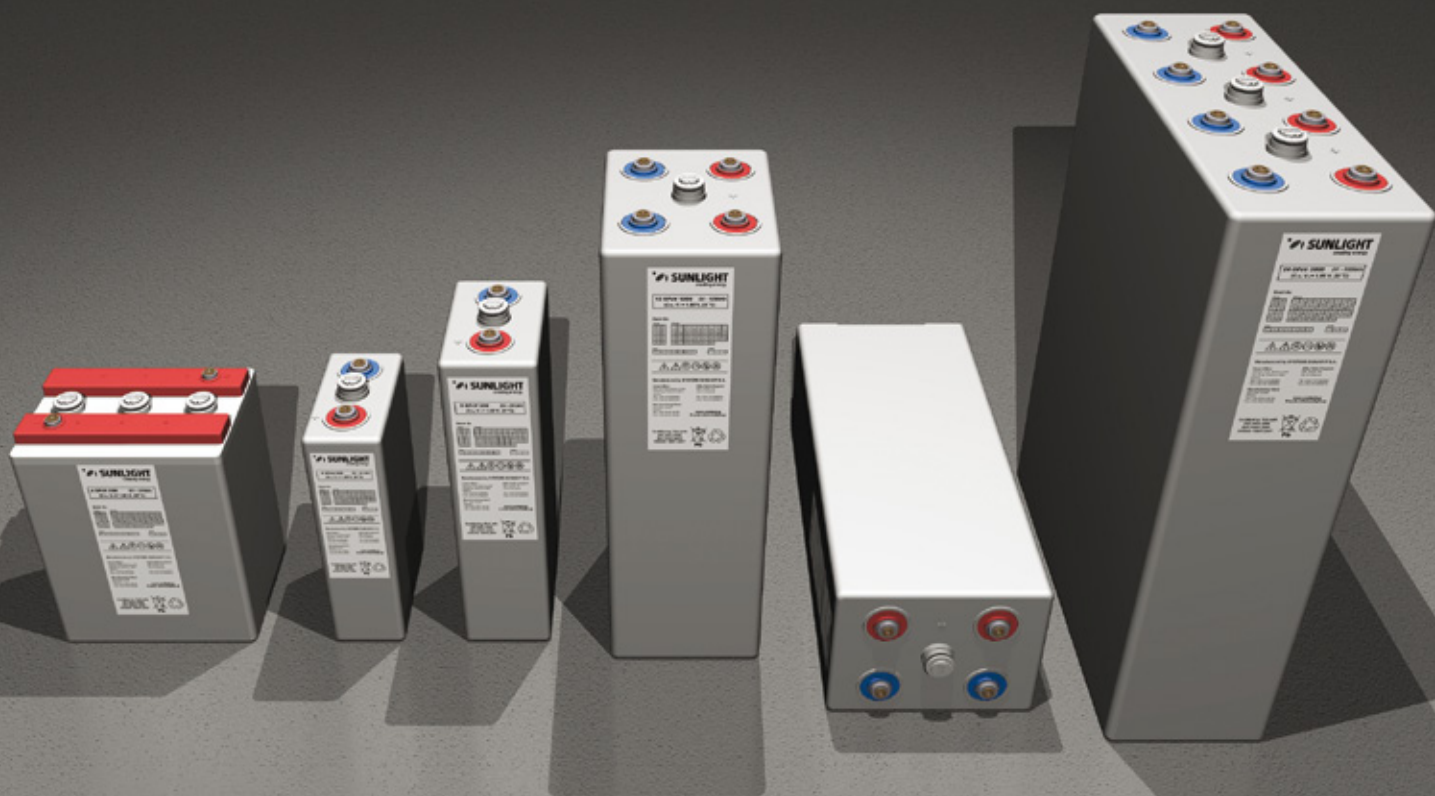


OPzV Batteries

Technical Data



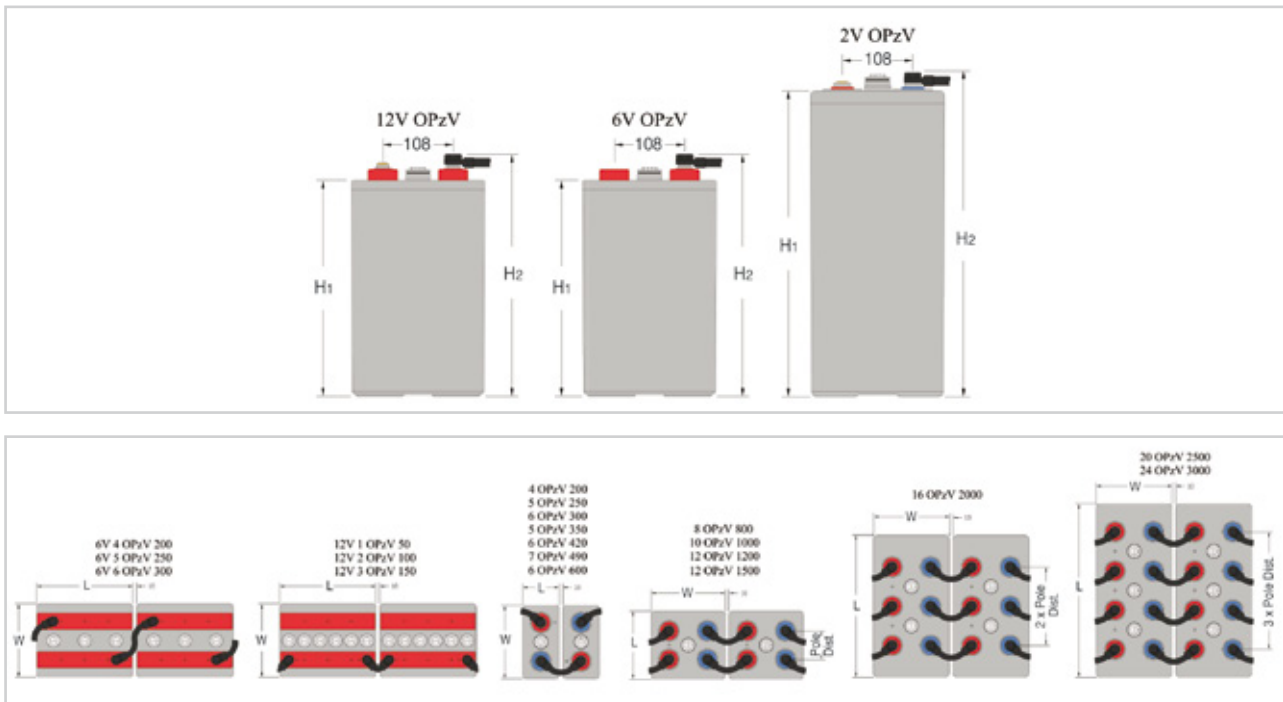
 **SUNLIGHT**
creating energy

Product Range

	Type	Positive Plates Number		Number of Poles	Nom. capacity (Ah at 20°C)				Length (mm)	Width (mm)	Height ₁ (mm)	Height ₂ (mm)	Pole Dist. (mm)	Weight (approx. kg)	Nom. Voltage	Short Circuit Current (A)	Internal Resistance (mOhm)
		C10 (Ah) 1.80 Vpc	C5 (Ah) 1.75 Vpc		C3 (Ah) 1.75 Vpc	C1 (Ah) 1.75 Vpc											
Cells	2V 4 OPzV 200 ¹	4	50	2	224	202	179	124	103	206	355	382	-	20	2	2300	0.88
	2V 5 OPzV 250 ¹	5	50	2	280	253	224	155	124	206	355	382	-	24	2	2860	0.71
	2V 6 OPzV 300 ¹	6	50	2	336	303	268	185	145	206	355	382	-	28	2	3380	0.60
	2V 5 OPzV 350 ¹	5	70	2	405	365	320	212	124	206	471	498	-	31	2	3380	0.60
	2V 6 OPzV 420 ¹	6	70	2	486	438	384	252	145	206	471	498	-	37	2	3980	1.00
	2V 7 OPzV 490 ¹	7	70	2	567	512	447	292	166	206	471	498	-	42	2	4520	0.45
	2V 6 OPzV 600 ¹	6	100	2	690	623	539	330	145	206	646	673	-	50	2	4360	0.47
	2V 8 OPzV 800 ¹	8	100	4	920	831	720	445	191	210	646	673	80	68	2	5980	0.34
	2V 10 OPzV 1000 ¹	10	100	4	1150	1039	899	554	233	210	646	673	110	82	2	7380	0.28
	2V 12 OPzV 1200 ¹	12	100	4	1380	1247	1076	657	275	210	646	673	140	97	2	8640	0.24
	2V 12 OPzV 1500 ¹	12	125	4	1620	1470	1275	784	275	210	797	824	140	120	2	9440	0.22
	2V 16 OPzV 2000 ¹	16	125	6	2160	1960	1701	1049	399	214	772	799	110	165	2	12680	0.16
	2V 20 OPzV 2500 ¹	20	125	8	2700	2452	2130	1322	487	212	772	799	110	200	2	16240	0.13
	2V 24 OPzV 3000 ¹	24	125	8	3240	2940	2544	1552	576	212	772	799	140	240	2	18460	0.11
Blocks	6V 4 OPzV 200 ²	4	50	2	206	190	169	117	272	205	332	371	-	48	6	2260	2.70
	6V 5 OPzV 250 ²	5	50	2	257	237	211	146	380	205	332	371	-	63	6	2740	2.22
	6V 6 OPzV 300 ²	6	50	2	309	285	253	173	380	205	332	371	-	70	6	3220	1.89
	12V 1 OPzV 50 ²	1	50	2	51	47	42	30	272	205	332	371	-	43	12	620	19.80
	12V 2 OPzV 100 ²	2	50	2	102	94	84	59	272	205	332	371	-	52	12	1240	9.90
	12V 3 OPzV 150 ²	3	50	2	153	141	126	88	380	205	332	371	-	72	12	1720	7.08

¹ According to DIN 40 742 ² According to DIN 40 744 *includes installed connectors and shrouds.

Drawings



All dimensions and weights shown are subject to manufacturing tolerances

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	Plastic case made of polymer plastic ABS (acrylonitrile-butadiene-styrene copolymer). Optionally available in flame retardant plastic ABS.
Poles	Premium design with insert and rubber seal in the lid for hardness and acid resistance. M10 brass inlay.
Connectors	Accurate voltage and impedance measurements are possible due to bolt-on type design. Steel bolts with plastic encapsulated heads. A wide variety of insulated flexible and solid copper connectors is available.
Pressure relief valve	Relief valve with integral flame arrestor.

Charging

Floating voltage set point	2.25 V/cell at 20°C.
Recommended Boost Charge Voltage	2.33 V/cell - 2.40 V/cell at 20°C
Max. charge current	No limit for float voltage applications. The maximum permissible ripple current value is 0.05 I ₁₀ . Under no circumstance this value should exceed 0.1 I ₁₀ .
Max. 60 sec safety current	2500A per pair of poles
Recommended End of Discharge voltage	1.60 V/cell for 15 min - 1 hr discharge 1.70 V/cell for 1 hr - 5 hr discharge 1.75 V/cell for 5 hr - 8 hr discharge 1.80 V/cell for 8 hr - 10 hr discharge In the performance tables, the end of discharge voltages extend up to 1.60 V, however it is highly recommended to take into consideration the values above, in order to avoid deep battery discharges.

Operational Data

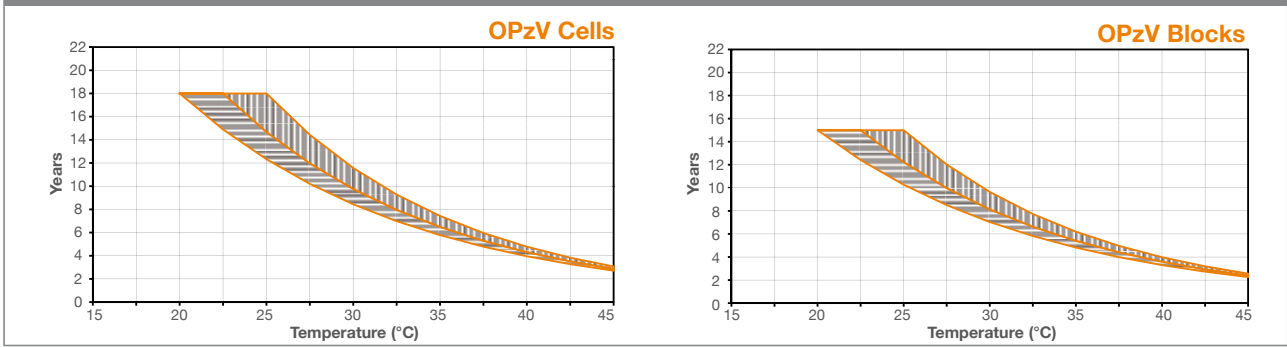
Expected service life	18 years for 2V cells and 15 years for 6V & 12V blocks (stand-by float, 20°C).
Maintenance-free	No topping up water during life.
Operating temperature	Recommended 10°C to 30°C. Min: -20°C / Max: 45°C. At very low temperatures (i.e. below 0°C) the acid in the electrolyte may reach a density where it freezes (between -6°C and -13°C for a fully discharged battery).
Storage Time	Maximum shelf life up to 6 months at 20°C, 4 months at 30°C or 2 months at 40°C.
Self discharge rate	Approx. 2% per month at 20°C.
Expected number of cycles	The number of such cycles which can be obtained is typically over 1600 at 60% DoD, as dictated by the IEC896-2 (>1000 cycles).

Certified Quality

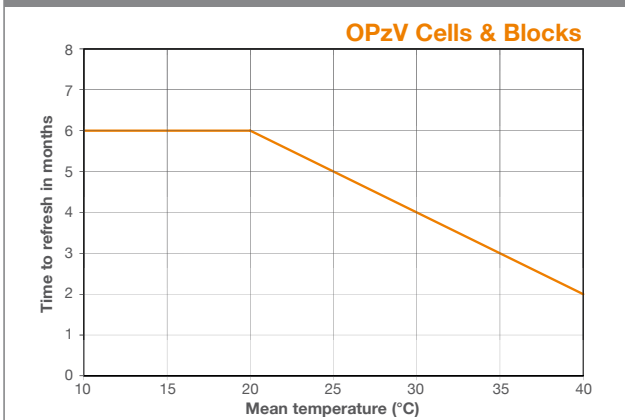
- “Long Life” according to Eurobat classification
- Tested according to IEC 60896-21 and fully compliant to IEC 60896-22
- Optimized for deep discharge recovery according to DIN 43539T5 Part 5
- Full conformity to DIN 40742 specifications for OPzV cells and DIN 40744 for OPzV blocks
- Compliant to the safety requirements of EN 50272-2 for stationary batteries
- Manufactured in SUNLIGHT’s European production facilities, certified with ISO 9001, ISO 14001, BS OHSAS 18001

Diagrams

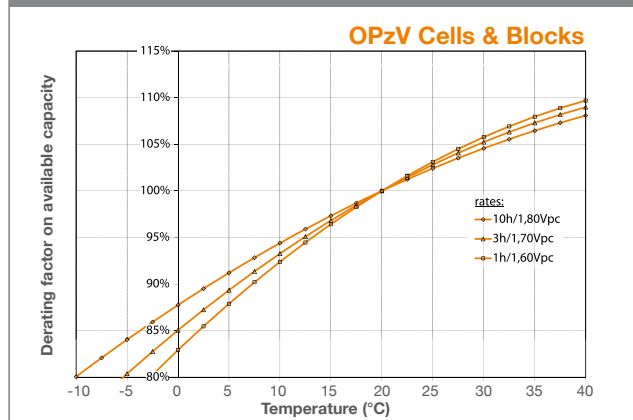
Expected Service Life vs. Operating Temperature



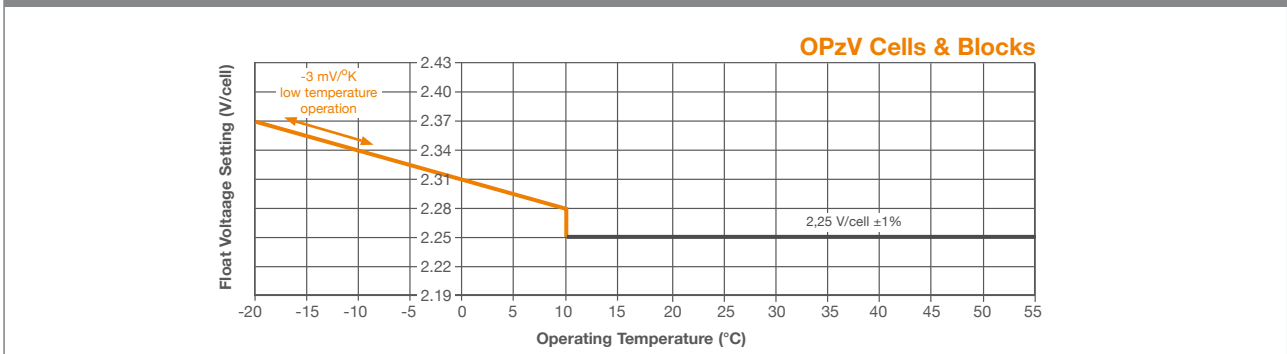
Time to Refresh vs. Temperature



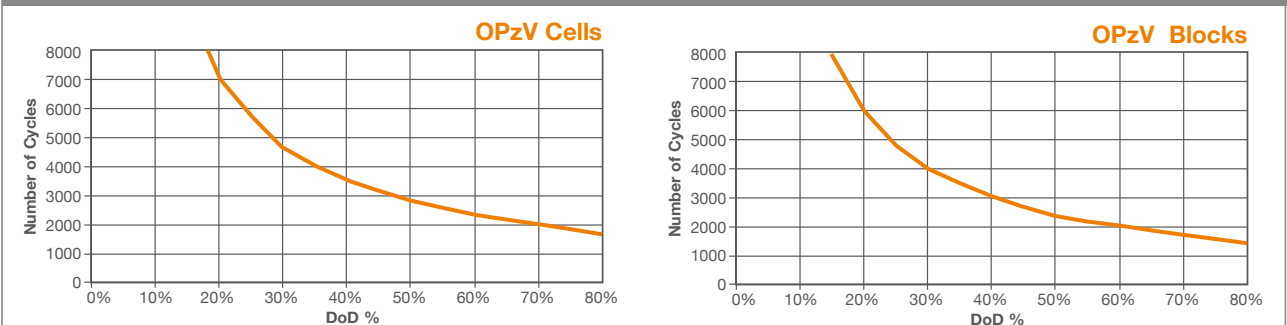
Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature



Expected Number of Cycles vs. DoD at 20°C



Performance Data

Discharge Constant Current at 20°C (Amperes)

		End Voltage 1.90 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	30.4	29.0	24.2	20.9	18.5	12.8	9.9	8.1	6.9	6.0	5.4	4.8	4.1	3.5	2.3
	12V 2 OPzV 100	60.8	58.0	48.4	41.8	37.0	25.6	19.8	16.3	13.9	12.1	10.8	9.7	8.1	7.0	4.6
	12V 3 OPzV 150	84.4	82.2	69.5	60.4	53.6	37.5	29.2	24.1	20.5	17.9	16.0	14.4	12.1	10.5	6.9
	6V 4 OPzV 200	111.0	109.6	93.5	81.7	72.7	51.1	39.8	32.8	28.0	24.5	21.8	19.7	16.5	14.3	9.3
	6V 5 OPzV 250	135.8	133.0	114.9	100.6	89.7	63.4	49.5	40.8	34.9	30.5	27.2	24.5	20.6	17.8	11.7
	6V 6 OPzV 300	154.0	153.4	133.7	117.5	105.2	74.9	58.7	48.5	41.5	36.3	32.4	29.2	24.6	21.2	13.9
2V Cells	4 OPzV 200	115.0	113.7	99.5	87.2	77.8	55.0	43.0	35.6	30.5	26.7	23.8	21.6	18.2	15.7	10.4
	5 OPzV 250	143.6	142.3	123.7	108.5	96.9	68.6	53.7	44.4	38.0	33.3	29.8	26.9	22.7	19.7	13.0
	6 OPzV 300	169.1	165.9	146.9	129.1	115.3	81.9	64.1	53.1	45.5	39.9	35.6	32.2	27.2	23.5	15.6
	5 OPzV 350	164.3	162.9	153.6	137.5	124.7	91.7	73.2	61.3	52.9	46.6	41.8	37.9	32.1	27.9	18.6
	6 OPzV 420	194.1	191.6	181.4	162.7	147.8	109.1	87.2	73.1	63.1	55.7	50.0	45.4	38.4	33.4	22.3
	7 OPzV 490	218.6	215.8	206.3	185.7	169.1	125.6	100.7	84.5	73.1	64.6	57.9	52.6	44.6	38.8	26.0
	6 OPzV 600	220.8	219.7	214.4	201.7	186.3	143.7	117.6	99.8	87.0	77.2	69.5	63.3	53.9	47.1	31.7
	8 OPzV 800	304.1	302.5	294.0	274.7	253.4	194.4	158.6	134.4	116.9	103.7	93.3	84.9	72.2	63.0	42.4
	10 OPzV 1000	374.9	370.7	363.5	340.3	314.1	241.5	197.2	167.3	145.6	129.2	116.3	105.9	90.1	78.6	52.9
	12 OPzV 1200	435.6	431.8	422.3	399.6	369.5	285.6	234.0	198.8	173.3	153.9	138.6	126.3	107.6	93.9	63.4
	12 OPzV 1500	531.1	528.4	513.6	482.5	445.6	342.8	279.6	236.8	205.9	182.4	164.0	149.1	126.6	110.3	73.8
	16 OPzV 2000	715.6	711.9	701.0	648.0	597.9	459.2	374.2	316.8	275.2	243.8	219.1	199.2	169.0	147.2	98.4
	20 OPzV 2500	909.2	902.6	878.7	818.6	754.2	577.1	469.4	396.8	344.5	304.9	273.9	249.0	211.2	183.8	122.8
	24 OPzV 3000	1037.6	1032.4	1017.4	950.4	878.9	678.9	555.2	471.0	409.9	363.5	327.0	297.5	252.7	220.2	147.4

		End Voltage 1.87 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	36.6	34.0	28.1	24.1	21.2	14.4	11.1	9.1	7.7	6.7	5.9	5.3	4.5	3.8	2.5
	12V 2 OPzV 100	73.1	68.1	56.3	48.3	42.4	28.9	22.2	18.1	15.4	13.4	11.9	10.7	8.9	7.7	5.0
	12V 3 OPzV 150	103.1	97.0	81.0	69.9	61.7	42.5	32.8	26.9	22.8	19.9	17.7	15.9	13.3	11.5	7.5
	6V 4 OPzV 200	135.2	129.1	108.7	94.3	83.4	57.7	44.5	36.5	31.0	27.0	24.0	21.6	18.1	15.6	10.2
	6V 5 OPzV 250	164.7	158.2	133.7	116.2	103.0	71.6	55.4	45.4	38.6	33.7	29.9	27.0	22.6	19.4	12.7
	6V 6 OPzV 300	191.3	183.2	155.8	136.1	121.1	84.8	65.8	54.1	46.0	40.2	35.7	32.2	27.0	23.3	15.2
2V Cells	4 OPzV 200	141.6	137.4	116.3	101.1	89.5	62.0	48.0	39.4	33.6	29.4	26.2	23.6	19.8	17.2	11.3
	5 OPzV 250	175.2	170.5	144.5	125.7	111.4	77.3	59.8	49.2	41.9	36.7	32.7	29.5	24.8	21.4	14.1
	6 OPzV 300	209.6	202.2	171.8	149.7	132.8	92.4	71.6	58.9	50.2	43.9	39.1	35.3	29.7	25.7	16.9
	5 OPzV 350	205.9	202.2	181.2	161.1	145.2	104.7	82.6	68.6	58.9	51.8	46.3	41.9	35.3	30.7	20.3
	6 OPzV 420	241.6	239.7	214.2	190.8	172.2	124.7	98.6	82.0	70.4	61.9	55.4	50.1	42.3	36.7	24.4
	7 OPzV 490	272.6	270.6	244.2	218.3	197.5	143.9	114.1	95.0	81.7	71.9	64.3	58.3	49.2	42.7	28.4
	6 OPzV 600	270.3	269.0	259.8	237.0	218.1	165.6	134.0	112.8	97.7	86.3	77.4	70.3	59.6	51.8	34.6
	8 OPzV 800	376.6	374.4	354.5	322.5	296.0	223.5	180.3	151.5	131.0	115.6	103.7	94.1	79.7	69.3	46.2
	10 OPzV 1000	464.6	462.0	438.7	399.7	367.1	277.9	224.4	188.8	163.3	144.3	129.4	117.4	99.5	86.5	57.8
	12 OPzV 1200	540.7	537.8	515.0	470.1	432.8	329.4	266.8	224.9	194.8	172.2	154.6	140.4	119.0	103.6	69.2
	12 OPzV 1500	656.2	652.6	621.0	566.2	520.5	394.4	318.2	267.4	231.1	203.8	182.6	165.6	139.9	121.5	80.6
	16 OPzV 2000	874.1	868.1	834.0	759.7	698.2	528.0	425.5	357.3	308.7	272.2	243.8	221.1	186.8	162.1	107.5
	20 OPzV 2500	1124.2	1117.8	1055.7	960.1	880.8	663.5	533.7	447.6	386.4	340.5	304.9	276.4	233.4	202.6	134.2
	24 OPzV 3000	1269.8	1260.3	1219.9	1115.4	1027.1	781.9	632.5	532.3	460.5	406.5	364.4	330.6	279.5	242.8	161.2

		End Voltage 1.85 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	40.4	37.3	30.7	26.2	22.9	15.4	11.8	9.6	8.1	7.1	6.3	5.6	4.7	4.0	2.6
	12V 2 OPzV 100	80.7	74.7	61.3	52.3	45.8	30.9	23.6	19.2	16.2	14.1	12.5	11.2	9.4	8.1	5.2
	12V 3 OPzV 150	114.6	106.5	88.5	76.0	66.8	45.6	34.9	28.5	24.2	21.0	18.7	16.8	14.0	12.1	7.8
	6V 4 OPzV 200	151.5	141.6	118.5	102.3	90.1	61.6	47.3	38.6	32.7	28.5	25.2	22.7	19.0	16.3	10.6
	6V 5 OPzV 250	185.8	173.7	145.9	126.2	111.4	76.5	58.8	48.1	40.8	35.5	31.5	28.3	23.7	20.4	13.2
	6V 6 OPzV 300	211.4	201.3	170.3	148.0	131.1	90.8	70.0	57.3	48.7	42.4	37.7	33.9	28.3	24.4	15.9
2V Cells	4 OPzV 200	161.2	151.2	127.1	109.8	96.7	66.1	50.8	41.6	35.3	30.9	27.4	24.7	20.8	17.9	11.8
	5 OPzV 250	200.0	187.7	158.1	136.6	120.4	82.4	63.4	51.9	44.1	38.5	34.3	30.9	25.9	22.4	14.7
	6 OPzV 300	232.9	222.8	188.0	162.7	143.6	98.6	75.9	62.1	52.9	46.2	41.1	37.1	31.1	26.9	17.6
	5 OPzV 350	230.0	227.8	199.2	176.3	158.1	112.5	88.1	72.8	62.3	54.6	48.8	44.1	37.1	32.2	21.3
	6 OPzV 420	273.5	266.8	235.6	208.9	187.8	134.2	105.2	87.1	74.6	65.4	58.4	52.8	44.5	38.6	25.5
	7 OPzV 490	308.8	302.6	268.9	239.2	215.5	155.0	121.9	101.1	86.7	76.1	67.9	61.5	51.8	44.9	29.7
	6 OPzV 600	309.5	307.7	286.4	260.2	238.6	179.1	143.8	120.4	103.9	91.6	82.0	74.3	62.8	54.5	36.3
	8 OPzV 800	425.2	421.3	390.0	353.7	323.5	241.5	193.2	161.5	139.2	122.5	109.7	99.4	83.9	72.9	48.4
	10 OPzV 1000	518.5	514.6	483.0	438.4	401.6	300.4	240.7	201.4	173.6	152.9	136.9	124.1	104.8	91.0	60.5
	12 OPzV 1200	607.5	600.4	567.3	516.4	473.7	356.6	286.6	240.3	207.4	182.8	163.7	148.4	125.5	109.0	72.5
	12 OPzV 1500	738.8	727.5	682.9	620.8	568.9	426.2	341.3	285.3	245.7	216.1	193.3	175.0	147.5	127.9	84.5
	16 OPzV 2000	996.2	990.4	917.2	833.0	762.7	570.3	456.2	381.1	328.0	288.5	257.9	233.5	196.8	170.6	112.6
	20 OPzV 2500	1253.9	1243.4	1161.3	1052.4	962.4	716.6	572.1	477.3	410.6	361.0	322.6	292.0	246.0	213.1	140.6
	24 OPzV 3000	1446.0	1438.0	1343.3	1223.2	1123.5	845.6	678.9	568.3	489.9	431.3	385.8	349.4	294.8	255.6	168.9

Performance Data

Discharge Constant Current at 20°C (Amperes)

		End Voltage 1.83 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	44.0	40.6	33.1	28.1	24.5	16.3	12.4	10.1	8.5	7.4	6.5	5.9	4.9	4.2	2.7
	12V 2 OPzV 100	88.0	81.1	66.2	56.2	48.9	32.6	24.8	20.1	17.0	14.8	13.1	11.7	9.8	8.4	5.4
	12V 3 OPzV 150	125.0	116.0	95.7	81.8	71.6	48.3	36.8	30.0	25.4	22.0	19.5	17.5	14.6	12.6	8.1
	6V 4 OPzV 200	165.5	154.1	128.1	109.9	96.4	65.2	49.7	40.4	34.2	29.7	26.3	23.7	19.7	17.0	11.0
	6V 5 OPzV 250	202.5	188.9	157.8	135.8	119.3	81.0	61.9	50.4	42.7	37.1	32.9	29.5	24.6	21.2	13.7
	6V 6 OPzV 300	233.5	219.1	184.3	159.5	140.6	96.2	73.8	60.2	51.0	44.4	39.3	35.4	29.5	25.4	16.5
2V Cells	4 OPzV 200	176.6	164.9	137.6	118.0	103.3	69.7	53.3	43.4	36.9	32.1	28.5	25.7	21.5	18.6	12.2
	5 OPzV 250	219.0	204.8	171.1	146.9	128.7	86.9	66.5	54.2	46.0	40.1	35.6	32.1	26.9	23.2	15.2
	6 OPzV 300	258.1	243.0	203.6	175.1	153.6	104.0	79.6	65.0	55.2	48.1	42.7	38.5	32.3	27.9	18.2
	5 OPzV 350	257.5	251.0	216.9	190.9	170.4	119.6	93.0	76.5	65.3	57.2	50.9	46.0	38.7	33.5	22.1
	6 OPzV 420	305.4	295.9	256.6	226.4	202.5	142.7	111.1	91.6	78.2	68.5	61.0	55.2	46.4	40.2	26.5
	7 OPzV 490	345.1	336.5	293.2	259.6	232.8	165.1	128.9	106.4	91.0	79.7	71.1	64.2	54.1	46.8	30.9
	6 OPzV 600	345.2	343.1	312.3	282.9	258.6	191.7	152.7	127.3	109.4	96.2	86.0	77.8	65.6	56.9	37.7
	8 OPzV 800	473.9	470.9	425.3	384.2	350.2	258.1	204.9	170.5	146.4	128.6	114.9	103.9	87.6	75.9	50.2
	10 OPzV 1000	581.9	572.9	526.9	476.6	434.8	321.3	255.4	212.7	182.8	160.6	143.5	129.8	109.4	94.9	62.8
	12 OPzV 1200	682.0	672.4	619.2	561.5	513.6	381.9	304.5	254.0	218.5	192.1	171.8	155.5	131.1	113.7	75.3
	12 OPzV 1500	823.8	812.2	744.5	674.2	615.8	455.8	362.2	301.3	258.6	227.0	202.6	183.2	154.1	133.3	87.7
	16 OPzV 2000	1108.8	1102.0	999.2	904.3	825.4	609.7	484.0	402.3	345.2	302.9	270.3	244.4	205.6	177.8	116.9
	20 OPzV 2500	1402.9	1381.9	1265.6	1142.9	1041.4	765.9	606.8	503.9	432.0	379.0	338.1	305.5	256.9	222.2	146.1
	24 OPzV 3000	1609.9	1600.6	1464.2	1329.5	1216.5	904.9	721.0	600.6	515.9	453.1	404.6	365.9	308.0	266.6	175.5

		End Voltage 1.80 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	49.4	45.3	36.6	30.8	26.6	17.5	13.2	10.6	9.0	7.8	6.8	6.1	5.1	4.4	2.8
	12V 2 OPzV 100	98.7	90.7	73.2	61.6	53.2	35.0	26.4	21.3	17.9	15.5	13.7	12.3	10.2	8.7	5.6
	12V 3 OPzV 150	140.6	129.9	106.2	90.0	78.2	51.9	39.3	31.8	26.8	23.2	20.5	18.4	15.3	13.1	8.5
	6V 4 OPzV 200	185.7	172.3	141.9	120.6	105.0	69.8	52.9	42.8	36.1	31.2	27.6	24.8	20.6	17.7	11.4
	6V 5 OPzV 250	227.5	211.4	174.9	149.2	130.1	86.9	65.9	53.4	45.0	39.0	34.5	31.0	25.7	22.1	14.3
	6V 6 OPzV 300	263.3	245.6	204.8	175.7	153.8	103.5	78.7	63.9	53.9	46.8	41.4	37.1	30.9	26.5	17.1
2V Cells	4 OPzV 200	198.9	185.0	152.5	129.3	112.2	74.3	56.3	45.7	38.7	33.6	29.8	26.8	22.4	19.3	12.6
	5 OPzV 250	247.0	229.9	189.7	161.0	139.8	92.8	70.4	57.1	48.3	42.0	37.2	33.5	28.0	24.1	15.7
	6 OPzV 300	293.0	272.9	225.9	192.1	167.1	111.1	84.3	68.5	57.9	50.4	44.7	40.2	33.6	29.0	18.9
	5 OPzV 350	299.7	283.0	242.6	211.7	187.4	128.9	99.2	81.2	69.1	60.3	53.6	48.3	40.5	35.0	22.9
	6 OPzV 420	348.0	334.3	287.3	251.4	223.1	154.0	118.7	97.3	82.8	72.3	64.3	57.9	48.6	42.0	27.5
	7 OPzV 490	393.3	380.5	328.8	288.7	256.9	178.5	137.9	113.2	96.4	84.2	74.9	67.6	56.7	49.0	32.2
	6 OPzV 600	392.4	390.5	351.0	316.1	287.1	208.8	164.4	136.1	116.5	102.0	90.9	82.1	69.0	59.7	39.3
	8 OPzV 800	547.1	537.7	477.1	428.5	388.2	280.6	220.2	182.1	155.6	136.2	121.4	109.6	92.0	79.5	52.3
	10 OPzV 1000	675.7	663.1	591.5	531.8	482.3	349.6	274.7	227.3	194.4	170.2	151.6	136.9	115.0	99.4	65.4
	12 OPzV 1200	788.3	779.8	695.9	627.5	570.7	416.2	328.1	271.8	232.7	203.9	181.8	164.2	138.0	119.4	78.6
	12 OPzV 1500	949.7	936.2	834.9	752.0	682.8	495.7	389.5	321.9	275.1	240.6	214.2	193.2	162.0	139.8	91.4
	16 OPzV 2000	1277.9	1258.9	1120.5	1008.2	914.7	662.6	520.2	429.7	367.0	321.0	285.6	257.6	216.0	186.4	121.8
	20 OPzV 2500	1628.5	1588.9	1419.6	1274.3	1153.8	832.0	652.0	538.0	459.3	401.5	357.2	322.1	270.0	233.0	152.2
	24 OPzV 3000	1856.2	1837.6	1643.8	1484.1	1350.1	985.4	776.2	642.3	549.2	480.7	428.0	386.3	324.0	279.7	183.0

		End Voltage 1.75 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	58.1	53.0	41.9	34.7	29.6	18.9	14.0	11.2	9.4	8.1	7.1	6.4	5.3	4.5	2.9
	12V 2 OPzV 100	116.2	105.9	83.8	69.3	59.2	37.8	28.0	22.4	18.8	16.2	14.3	12.8	10.6	9.1	5.8
	12V 3 OPzV 150	165.9	152.3	122.2	101.9	87.5	56.4	42.0	33.7	28.2	24.3	21.5	19.2	15.9	13.6	8.8
	6V 4 OPzV 200	219.0	201.7	162.9	136.2	117.1	75.7	56.4	45.2	37.9	32.7	28.8	25.8	21.4	18.3	11.8
	6V 5 OPzV 250	268.4	247.9	201.2	168.9	145.5	94.4	70.4	56.5	47.4	40.9	36.1	32.3	26.8	23.0	14.7
	6V 6 OPzV 300	311.1	288.5	236.4	199.6	172.6	112.8	84.4	67.8	56.9	49.2	43.3	38.8	32.2	27.6	17.7
2V Cells	4 OPzV 200	235.4	217.4	174.7	145.2	124.2	79.8	59.7	48.0	40.4	35.0	31.0	27.8	23.2	20.0	13.0
	5 OPzV 250	292.5	270.1	217.5	181.0	155.0	99.8	74.6	60.0	50.5	43.8	38.7	34.8	29.0	25.0	16.2
	6 OPzV 300	347.0	320.9	259.4	216.3	185.4	119.6	89.5	72.1	60.7	52.6	46.5	41.8	34.8	30.0	19.5
	5 OPzV 350	357.1	335.5	282.7	242.5	211.7	140.9	106.6	86.4	73.0	63.4	56.2	50.6	42.2	36.4	23.8
	6 OPzV 420	421.1	396.6	335.5	288.5	252.4	168.7	127.9	103.7	87.6	76.2	67.5	60.7	50.7	43.7	28.5
	7 OPzV 490	479.5	452.2	384.6	332.4	291.7	196.1	149.0	121.0	102.3	88.9	78.8	70.9	59.3	51.1	33.4
	6 OPzV 600	488.6	468.3	413.0	367.7	330.1	232.2	179.6	146.9	124.7	108.5	96.3	86.6	72.4	62.4	40.8
	8 OPzV 800	668.7	638.9	560.7	497.3	445.1	311.2	240.0	196.1	166.2	144.6	128.2	115.4	96.4	83.1	54.2
	10 OPzV 1000	827.3	790.5	695.7	617.8	553.7	388.2	299.7	245.0	207.8	180.8	160.4	144.3	120.6	103.9	67.9
	12 OPzV 1200	966.1	928.4	819.6	730.9	657.0	463.5	358.8	293.8	249.4	217.2	192.6	173.4	144.9	124.9	81.6
	12 OPzV 1500	1159.8	1111.8	980.9	873.4	783.8	550.5	424.9	347.1	294.0	255.6	226.5	203.6	169.9	146.2	94.9
	16 OPzV 2000	1559.3	1493.8	1315.5	1170.2	1049.1	735.2	567.0	462.9	392.0	340.8	301.9	271.4	226.4	194.8	126.5
	20 OPzV 2500	1960.7	1896.1	1665.8	1477.3	1322.0	922.3	710.0	579.3	490.4	426.1	377.4	339.3	283.0	243.4	158.0
	24 OPzV 3000	2267.2	2181.8	1932.1	1725.3	1552.4	1096.2	848.0	693.6	588.0	511.3	453.2	407.5	340.1	292.6	190.1

Performance Data

Discharge Constant Current at 20°C (Amperes)

		End Voltage 1.70 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	66.5	60.1	46.4	37.7	31.7	19.6	14.4	11.5	9.6	8.3	7.3	6.5	5.4	4.6	3.0
	12V 2 OPzV 100	132.9	120.1	92.7	75.3	63.4	39.2	28.8	23.0	19.2	16.5	14.6	13.0	10.8	9.2	5.9
	12V 3 OPzV 150	190.4	173.4	135.9	111.5	94.3	58.7	43.3	34.5	28.9	24.9	21.9	19.6	16.2	13.9	8.9
	6V 4 OPzV 200	251.1	229.5	181.0	148.8	126.1	78.8	58.1	46.4	38.8	33.5	29.5	26.4	21.8	18.7	12.0
	6V 5 OPzV 250	308.0	282.5	224.1	184.8	157.1	98.5	72.7	58.0	48.6	41.9	36.9	33.0	27.3	23.4	15.0
	6V 6 OPzV 300	357.8	329.5	264.2	219.3	187.2	118.1	87.3	69.7	58.4	50.3	44.3	39.7	32.9	28.1	18.1
2V Cells	4 OPzV 200	270.6	247.3	193.1	157.4	132.7	82.7	61.3	49.2	41.3	35.7	31.6	28.4	23.6	20.3	13.2
	5 OPzV 250	336.3	307.6	240.7	196.4	165.7	103.4	76.6	61.5	51.6	44.7	39.5	35.5	29.6	25.4	16.5
	6 OPzV 300	399.4	365.9	287.5	235.0	198.5	124.1	92.0	73.8	62.0	53.7	47.4	42.6	35.5	30.5	19.8
	5 OPzV 350	413.2	386.0	318.3	267.9	230.6	148.2	110.5	89.0	74.9	65.0	57.5	51.7	43.1	37.1	24.2
	6 OPzV 420	488.1	456.9	378.3	319.4	275.6	177.8	132.7	106.9	90.0	78.1	69.1	62.1	51.8	44.6	29.1
	7 OPzV 490	555.8	521.5	435.2	369.1	319.4	207.3	154.9	124.9	105.2	91.2	80.7	72.6	60.6	52.2	34.0
	6 OPzV 600	569.0	541.5	471.5	413.7	366.5	249.2	188.8	152.8	128.9	111.8	98.9	88.9	74.1	63.8	41.6
	8 OPzV 800	775.3	737.6	639.2	558.3	492.9	333.0	251.7	203.5	171.6	148.8	131.6	118.2	98.6	84.8	55.3
	10 OPzV 1000	959.4	914.0	793.2	694.3	613.9	415.9	314.6	254.5	214.6	186.1	164.7	147.9	123.4	106.2	69.1
	12 OPzV 1200	1125.7	1073.5	936.6	823.1	730.3	498.0	377.6	305.7	257.9	223.7	198.0	177.9	148.4	127.7	83.2
	12 OPzV 1500	1343.0	1284.1	1118.6	981.4	869.2	589.9	446.1	360.5	303.6	263.1	232.6	208.7	173.8	149.4	96.8
	16 OPzV 2000	1807.6	1722.9	1499.1	1313.5	1162.4	787.2	594.7	480.5	404.6	350.5	309.9	278.1	231.6	199.0	128.9
	20 OPzV 2500	2296.2	2188.2	1896.3	1656.7	1462.8	986.2	744.1	601.0	505.9	438.2	387.4	347.7	289.5	248.7	161.1
	24 OPzV 3000	2640.5	2519.4	2205.0	1942.5	1724.9	1177.1	891.8	721.3	607.7	526.5	465.6	417.9	348.0	299.1	193.8

		End Voltage 1.65 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	74.4	66.4	49.8	39.5	32.7	19.9	14.6	11.6	9.7	8.4	7.4	6.6	5.5	4.7	3.0
	12V 2 OPzV 100	148.7	132.9	99.7	79.0	65.4	39.8	29.2	23.3	19.5	16.8	14.7	13.2	10.9	9.3	6.0
	12V 3 OPzV 150	213.8	192.7	147.2	117.8	98.0	59.9	43.9	35.0	29.3	25.2	22.2	19.8	16.4	14.1	9.0
	6V 4 OPzV 200	281.6	255.0	195.8	157.4	131.2	80.4	59.0	47.1	39.3	33.9	29.8	26.7	22.1	18.9	12.1
	6V 5 OPzV 250	346.3	314.4	243.0	196.2	163.8	100.5	73.9	58.9	49.2	42.4	37.3	33.4	27.7	23.7	15.2
	6V 6 OPzV 300	402.9	367.7	287.7	233.9	196.1	120.7	88.8	70.8	59.2	51.0	44.9	40.2	33.3	28.5	18.3
2V Cells	4 OPzV 200	304.0	274.4	207.7	165.3	137.3	84.2	62.2	49.8	41.8	36.2	32.0	28.7	23.9	20.5	13.3
	5 OPzV 250	377.8	341.4	259.0	206.5	171.6	105.3	77.7	62.3	52.3	45.2	40.0	35.9	29.9	25.7	16.7
	6 OPzV 300	449.1	406.7	309.8	247.4	205.8	126.4	93.3	74.8	62.8	54.3	48.0	43.1	35.9	30.9	20.0
	5 OPzV 350	468.2	433.8	348.6	287.7	243.6	151.9	112.5	90.4	76.0	65.9	58.3	52.3	43.7	37.6	24.5
	6 OPzV 420	552.8	513.7	415.2	343.7	291.7	182.4	135.2	108.6	91.4	79.1	70.0	62.9	52.5	45.2	29.4
	7 OPzV 490	630.8	587.8	478.8	398.4	339.3	213.0	157.9	127.0	106.8	92.5	81.8	73.5	61.3	52.8	34.4
	6 OPzV 600	646.0	613.1	525.2	453.1	395.9	258.9	193.4	155.8	131.1	113.6	100.4	90.1	75.1	64.6	42.0
	8 OPzV 800	880.4	833.8	710.3	609.7	531.0	345.1	257.5	207.3	174.4	151.1	133.5	119.9	99.9	85.9	55.9
	10 OPzV 1000	1091.1	1033.2	882.5	759.1	662.1	431.4	322.1	259.3	218.2	189.0	167.1	150.0	125.0	107.5	70.0
	12 OPzV 1200	1279.8	1216.2	1044.0	902.5	789.7	517.9	387.1	311.8	262.4	227.3	201.0	180.5	150.4	129.4	84.2
	12 OPzV 1500	1528.5	1450.0	1244.3	1073.7	938.2	612.2	456.7	367.4	308.8	267.2	236.0	211.7	176.1	151.3	97.9
	16 OPzV 2000	2051.4	1946.6	1666.5	1436.1	1253.4	816.2	608.7	489.6	411.4	356.0	314.4	282.0	234.7	201.5	130.4
	20 OPzV 2500	2610.3	2472.3	2106.2	1808.8	1574.9	1021.4	761.2	612.2	514.3	445.0	393.0	352.5	293.3	251.9	163.0
	24 OPzV 3000	2995.8	2851.6	2457.2	2128.9	1865.4	1223.7	913.9	735.5	618.2	534.9	472.5	423.9	352.8	303.0	196.1

		End Voltage 1.60 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	81.6	72.0	51.9	40.3	33.2	20.1	14.8	11.7	9.8	8.4	7.4	6.6	5.5	4.7	3.0
	12V 2 OPzV 100	163.2	143.9	103.9	80.7	66.5	40.3	29.5	23.5	19.6	16.9	14.9	13.3	11.0	9.4	6.0
	12V 3 OPzV 150	235.6	209.9	154.7	120.9	99.8	60.5	44.4	35.4	29.5	25.4	22.4	20.0	16.6	14.2	9.1
	6V 4 OPzV 200	310.5	277.8	206.4	161.9	133.8	81.3	59.6	47.5	39.7	34.2	30.1	26.9	22.3	19.1	12.2
	6V 5 OPzV 250	382.1	343.0	256.9	202.2	167.2	101.7	74.6	59.5	49.7	42.8	37.7	33.7	27.9	23.9	15.3
	6V 6 OPzV 300	445.8	402.7	305.8	242.2	200.7	122.2	89.7	71.5	59.7	51.5	45.3	40.5	33.6	28.7	18.4
2V Cells	4 OPzV 200	334.8	297.9	217.4	169.4	139.7	85.1	62.8	50.2	42.2	36.5	32.2	28.9	24.1	20.7	13.4
	5 OPzV 250	416.4	371.0	271.4	211.7	174.6	106.4	78.5	62.8	52.7	45.6	40.3	36.2	30.1	25.9	16.8
	6 OPzV 300	495.6	442.4	325.2	253.9	209.5	127.8	94.2	75.5	63.3	54.8	48.4	43.4	36.2	31.1	20.2
	5 OPzV 350	520.7	477.8	373.1	300.5	250.5	154.0	113.8	91.3	76.7	66.5	58.8	52.8	44.0	37.9	24.7
	6 OPzV 420	615.6	566.8	445.3	359.9	300.5	184.9	136.7	109.7	92.2	79.9	70.6	63.4	52.9	45.5	29.7
	7 OPzV 490	703.4	649.6	515.0	418.7	350.4	216.1	159.8	128.3	107.8	93.4	82.6	74.2	61.9	53.3	34.7
	6 OPzV 600	722.9	682.0	572.9	485.1	416.8	263.9	196.1	157.6	132.5	114.7	101.4	91.0	75.8	65.2	42.4
	8 OPzV 800	983.5	926.6	772.6	651.0	557.2	351.4	260.9	209.7	176.2	152.6	134.8	121.0	100.8	86.7	56.4
	10 OPzV 1000	1218.5	1148.7	961.0	811.6	695.8	439.5	326.5	262.3	220.5	190.9	168.7	151.4	126.1	108.5	70.5
	12 OPzV 1200	1431.6	1353.9	1140.2	967.5	832.6	528.2	392.6	315.5	265.3	229.7	203.0	182.2	151.8	130.5	84.9
	12 OPzV 1500	1705.9	1611.6	1355.8	1148.9	986.8	623.8	462.9	371.7	312.1	269.9	238.3	213.7	177.7	152.6	98.7
	16 OPzV 2000	2290.0	2162.7	1814.9	1535.4	1316.9	831.4	616.8	495.2	415.8	359.5	317.4	284.7	236.8	203.3	131.5
	20 OPzV 2500	2916.0	2744.9	2291.3	1930.6	1651.2	1039.9	771.2	619.1	519.7	449.4	396.8	355.8	296.0	254.1	164.4
	24 OPzV 3000	3348.3	3170.6	2682.5	2282.9	1967.4	1248.0	926.5	744.1	624.8	540.4	477.2	427.9	356.0	305.7	197.8

Performance Data

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

		End Voltage 1.90 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	57.7	54.4	45.3	39.1	34.6	24.1	18.8	15.5	13.3	11.6	10.4	9.4	7.9	6.8	4.5
	12V 2 OPzV 100	115.5	108.8	90.5	78.2	69.2	48.3	37.6	31.0	26.5	23.2	20.7	18.7	15.8	13.6	9.0
	12V 3 OPzV 150	160.5	154.8	130.0	113.0	100.4	70.8	55.4	45.8	39.3	34.4	30.7	27.8	23.4	20.3	13.4
	6V 4 OPzV 200	212.6	206.8	175.0	152.7	136.1	96.4	75.6	62.6	53.6	47.1	42.0	38.0	32.0	27.7	18.3
	6V 5 OPzV 250	258.6	253.2	215.0	188.1	167.9	119.4	93.9	77.8	66.7	58.6	52.3	47.3	39.9	34.6	22.8
	6V 6 OPzV 300	298.8	291.3	250.2	219.9	196.9	141.0	111.2	92.4	79.3	69.7	62.3	56.4	47.6	41.3	27.3
2V Cells	4 OPzV 200	220.8	218.0	186.3	163.1	145.6	103.6	81.5	67.7	58.2	51.2	45.8	41.5	35.1	30.5	20.4
	5 OPzV 250	275.7	268.8	231.4	202.8	181.2	129.1	101.6	84.5	72.6	63.9	57.2	51.8	43.8	38.1	25.4
	6 OPzV 300	322.6	319.6	274.9	241.3	215.8	154.1	121.5	101.0	86.9	76.5	68.5	62.1	52.5	45.6	30.5
	5 OPzV 350	317.6	315.3	288.3	257.6	233.6	172.4	138.3	116.2	100.7	89.1	80.1	72.8	61.9	54.0	36.4
	6 OPzV 420	368.8	366.5	340.5	304.8	276.7	205.0	164.7	138.6	120.2	106.4	95.7	87.0	74.0	64.6	43.5
	7 OPzV 490	414.8	412.8	387.7	348.1	316.7	235.9	190.1	160.2	139.1	123.2	110.9	100.9	85.9	75.0	50.6
	6 OPzV 600	422.2	418.0	410.9	378.6	349.6	270.0	221.8	189.0	165.2	147.1	132.8	121.3	103.6	90.8	61.7
	8 OPzV 800	580.7	575.2	565.4	515.8	475.2	365.3	299.2	254.5	222.2	197.7	178.3	162.7	138.9	121.6	82.6
	10 OPzV 1000	718.2	714.5	693.3	638.8	589.1	453.8	372.1	316.8	276.8	246.3	222.3	202.9	173.3	151.7	103.1
	12 OPzV 1200	834.4	830.2	810.3	750.4	693.2	536.6	441.3	376.5	329.3	293.3	264.9	241.9	206.8	181.2	123.3
	12 OPzV 1500	1014.2	1005.6	991.0	906.9	836.6	644.5	527.8	448.8	391.5	347.9	313.6	285.9	243.6	212.8	143.6
	16 OPzV 2000	1373.1	1366.0	1324.9	1217.5	1122.7	863.4	706.4	600.3	523.4	465.0	419.1	381.9	325.3	284.2	191.7
	20 OPzV 2500	1723.6	1717.4	1685.5	1537.6	1415.8	1085.1	886.0	751.9	655.1	581.7	524.0	477.3	406.4	354.9	239.2
	24 OPzV 3000	1990.6	1980.8	1924.8	1786.2	1650.2	1276.5	1047.9	892.3	779.3	693.1	625.1	570.0	486.1	425.0	287.1

		End Voltage 1.87 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	67.8	62.7	51.8	44.4	39.1	27.0	20.9	17.1	14.6	12.8	11.4	10.2	8.6	7.4	4.9
	12V 2 OPzV 100	135.7	125.4	103.5	88.9	78.2	53.9	41.7	34.3	29.2	25.5	22.7	20.5	17.2	14.9	9.8
	12V 3 OPzV 150	192.3	178.9	149.1	128.8	113.9	79.3	61.6	50.8	43.3	37.9	33.8	30.5	25.6	22.2	14.6
	6V 4 OPzV 200	255.0	238.3	200.0	173.6	153.9	107.6	83.7	69.0	58.9	51.5	45.9	41.4	34.8	30.1	19.8
	6V 5 OPzV 250	309.7	292.1	246.1	214.0	190.1	133.4	104.0	85.8	73.3	64.2	57.2	51.7	43.4	37.6	24.7
	6V 6 OPzV 300	359.0	338.4	287.0	250.7	223.4	157.9	123.5	102.1	87.4	76.5	68.3	61.7	51.9	44.9	29.6
2V Cells	4 OPzV 200	266.9	253.9	214.1	186.0	165.1	115.5	90.0	74.4	63.7	55.9	49.9	45.2	38.1	33.1	21.9
	5 OPzV 250	331.9	315.2	266.1	231.5	205.5	144.0	112.3	92.8	79.5	69.8	62.3	56.4	47.6	41.3	27.4
	6 OPzV 300	393.2	374.0	316.3	275.6	244.9	172.0	134.4	111.1	95.2	83.6	74.7	67.6	57.0	49.5	32.9
	5 OPzV 350	385.8	380.2	334.4	296.9	267.7	194.4	154.5	129.0	111.2	98.1	87.9	79.8	67.7	58.9	39.4
	6 OPzV 420	456.2	448.8	395.1	351.7	317.6	231.5	184.3	154.0	132.9	117.3	105.2	95.5	81.0	70.5	47.2
	7 OPzV 490	514.6	508.0	450.8	402.3	364.2	267.0	213.1	178.4	154.2	136.1	122.2	111.0	94.1	82.0	55.0
	6 OPzV 600	516.6	513.8	481.0	437.9	402.5	306.9	249.7	211.4	183.8	163.1	146.8	133.6	113.8	99.3	67.0
	8 OPzV 800	710.4	706.4	655.5	595.3	546.4	414.3	336.2	284.1	246.8	218.7	196.7	179.0	152.2	132.9	89.5
	10 OPzV 1000	871.1	862.1	811.6	737.9	677.7	515.2	418.5	353.9	307.6	272.7	245.3	223.3	190.0	165.9	111.8
	12 OPzV 1200	1018.8	1005.4	952.8	868.3	798.9	610.4	497.3	421.3	366.6	325.3	292.9	266.8	227.1	198.4	133.9
	12 OPzV 1500	1239.4	1232.7	1149.8	1046.2	961.5	731.2	593.6	501.4	435.2	385.4	346.4	315.0	267.4	233.0	156.1
	16 OPzV 2000	1669.0	1659.8	1544.5	1404.2	1289.4	978.9	793.9	670.2	581.5	514.8	462.6	420.6	356.9	311.0	208.2
	20 OPzV 2500	2122.2	2091.1	1954.3	1773.8	1626.5	1230.4	995.8	839.6	728.0	644.1	578.5	525.8	446.1	388.5	259.9
	24 OPzV 3000	2421.4	2408.6	2261.0	2061.6	1897.6	1449.6	1179.5	997.7	867.0	768.3	690.9	628.5	533.9	465.4	312.0

		End Voltage 1.85 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	73.7	68.0	55.8	47.7	41.9	28.6	22.0	18.1	15.4	13.4	11.9	10.7	9.0	7.8	5.1
	12V 2 OPzV 100	147.4	136.0	111.6	95.4	83.7	57.2	44.1	36.1	30.7	26.8	23.8	21.5	18.0	15.5	10.2
	12V 3 OPzV 150	209.6	194.2	161.0	138.6	122.2	84.4	65.3	53.6	45.7	39.9	35.5	32.0	26.9	23.2	15.2
	6V 4 OPzV 200	277.7	258.3	215.8	186.5	164.7	114.1	88.4	72.6	61.9	54.0	48.1	43.4	36.4	31.4	20.6
	6V 5 OPzV 250	339.8	316.9	265.6	230.1	203.7	141.6	109.9	90.4	77.1	67.4	60.0	54.1	45.4	39.2	25.7
	6V 6 OPzV 300	392.4	367.5	310.0	269.9	239.6	167.9	130.7	107.7	91.9	80.4	71.6	64.7	54.3	46.9	30.8
2V Cells	4 OPzV 200	295.9	276.1	231.4	200.0	176.7	122.3	94.8	78.1	66.8	58.5	52.2	47.2	39.7	34.5	22.8
	5 OPzV 250	366.7	342.9	287.7	248.9	220.0	152.5	118.3	97.5	83.4	73.0	65.2	58.9	49.7	43.0	28.5
	6 OPzV 300	435.4	407.0	342.2	296.6	262.4	182.3	141.6	116.7	99.8	87.5	78.1	70.6	59.5	51.6	34.2
	5 OPzV 350	430.0	419.9	363.3	321.4	288.7	207.4	163.7	136.2	117.2	103.1	92.3	83.7	70.8	61.6	41.1
	6 OPzV 420	506.2	495.5	429.8	380.9	342.7	247.1	195.5	162.8	140.1	123.4	110.5	100.2	84.8	73.8	49.3
	7 OPzV 490	572.8	561.9	490.7	436.3	393.4	285.4	226.3	188.8	162.7	143.4	128.4	116.6	98.7	85.9	57.4
	6 OPzV 600	577.6	567.8	523.6	475.2	435.8	329.1	266.1	224.3	194.5	172.1	154.6	140.6	119.4	104.1	70.0
	8 OPzV 800	788.0	778.4	713.0	645.7	590.8	443.8	357.8	301.0	260.7	230.5	207.0	188.1	159.7	139.2	93.4
	10 OPzV 1000	979.1	973.4	883.4	800.7	733.2	552.0	445.6	375.2	325.2	287.6	258.3	234.8	199.3	173.8	116.7
	12 OPzV 1200	1123.5	1120.7	1037.6	942.8	865.2	655.0	530.2	447.3	388.0	343.5	308.7	280.8	238.5	208.0	139.8
	12 OPzV 1500	1366.9	1357.2	1249.9	1134.2	1039.4	783.3	632.0	531.6	460.1	406.5	364.8	331.3	280.7	244.2	162.9
	16 OPzV 2000	1861.1	1830.1	1678.2	1521.5	1393.5	1048.3	845.0	710.3	614.6	542.9	487.0	442.2	374.6	325.8	217.3
	20 OPzV 2500	2369.0	2354.6	2125.3	1922.7	1758.4	1317.5	1059.9	889.9	769.4	679.3	609.2	552.9	468.2	407.2	271.4
	24 OPzV 3000	2701.1	2662.6	2459.7	2236.2	2052.6	1553.8	1256.7	1058.5	917.1	810.8	727.9	661.3	560.6	487.9	325.8

Performance Data

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

		End Voltage 1.83 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	79.4	73.0	59.6	50.8	44.4	30.1	23.1	18.9	16.0	14.0	12.4	11.2	9.3	8.1	5.3
	12V 2 OPzV 100	158.8	146.1	119.2	101.6	88.8	60.2	46.2	37.7	32.0	27.9	24.8	22.3	18.7	16.1	10.5
	12V 3 OPzV 150	225.9	209.0	172.4	147.8	129.9	88.9	68.5	56.1	47.7	41.6	37.0	33.3	27.9	24.1	15.7
	6V 4 OPzV 200	299.0	277.6	230.7	198.5	174.7	119.9	92.5	75.8	64.4	56.2	50.0	45.0	37.7	32.5	21.3
	6V 5 OPzV 250	366.2	340.6	284.1	245.1	216.2	149.0	115.1	94.4	80.3	70.1	62.3	56.2	47.1	40.6	26.6
	6V 6 OPzV 300	423.7	395.3	332.0	287.9	254.7	176.9	137.0	112.6	95.9	83.8	74.5	67.2	56.4	48.7	31.9
2V Cells	4 OPzV 200	319.7	297.5	247.7	212.9	187.2	128.2	99.0	81.3	69.4	60.7	54.1	48.9	41.1	35.6	23.5
	5 OPzV 250	396.9	369.4	308.0	265.1	233.2	160.0	123.6	101.5	86.6	75.8	67.6	61.0	51.4	44.5	29.4
	6 OPzV 300	470.5	438.6	366.5	315.9	278.2	191.3	147.9	121.6	103.8	90.8	81.0	73.2	61.6	53.3	35.2
	5 OPzV 350	473.5	454.3	391.1	344.4	308.1	218.9	171.8	142.5	122.3	107.5	96.1	87.1	73.5	63.9	42.5
	6 OPzV 420	563.7	535.9	462.8	408.4	366.1	261.1	205.3	170.4	146.3	128.7	115.1	104.3	88.1	76.6	51.0
	7 OPzV 490	637.5	609.9	529.0	468.3	420.8	301.8	237.9	197.8	170.0	149.6	133.9	121.4	102.6	89.2	59.4
	6 OPzV 600	637.0	630.0	564.6	511.0	467.1	349.4	280.7	235.7	203.8	180.0	161.5	146.6	124.3	108.2	72.4
	8 OPzV 800	874.6	858.7	768.5	693.5	632.7	470.6	377.0	316.0	273.0	240.9	216.0	196.0	166.1	144.5	96.6
	10 OPzV 1000	1066.7	1058.0	952.1	860.3	785.5	585.7	469.8	394.1	340.5	300.6	269.6	244.8	207.4	180.5	120.7
	12 OPzV 1200	1248.9	1232.5	1119.8	1014.1	928.0	695.6	559.6	470.2	406.8	359.3	322.4	292.9	248.3	216.2	144.8
	12 OPzV 1500	1514.3	1489.1	1346.6	1218.0	1113.2	830.8	666.2	558.3	481.9	425.0	380.8	345.4	292.1	253.8	168.7
	16 OPzV 2000	2048.3	2019.2	1807.6	1633.7	1492.0	1111.5	890.5	745.7	643.5	567.3	508.2	460.9	389.7	338.5	225.0
	20 OPzV 2500	2578.4	2554.2	2288.1	2064.6	1882.3	1396.6	1116.8	934.2	805.6	709.9	635.7	576.3	487.1	423.1	281.0
	24 OPzV 3000	2973.6	2947.6	2649.0	2402.0	2199.0	1649.0	1325.5	1112.2	961.0	848.0	760.1	689.7	583.6	507.2	337.5

		End Voltage 1.80 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	87.4	80.2	64.9	54.9	47.8	32.0	24.4	19.8	16.8	14.6	12.9	11.6	9.7	8.4	5.4
	12V 2 OPzV 100	174.9	160.4	129.8	109.9	95.5	64.0	48.8	39.7	33.6	29.2	25.9	23.3	19.4	16.7	10.9
	12V 3 OPzV 150	249.4	229.9	188.2	160.3	140.2	94.8	72.5	59.2	50.1	43.6	38.7	34.8	29.1	25.1	16.3
	6V 4 OPzV 200	329.5	305.1	251.4	214.9	188.1	127.5	97.7	79.7	67.6	58.8	52.2	47.0	39.2	33.8	22.0
	6V 5 OPzV 250	404.0	374.4	309.9	265.7	233.1	158.6	121.7	99.4	84.3	73.4	65.2	58.6	49.0	42.2	27.5
	6V 6 OPzV 300	468.0	435.2	362.8	312.5	275.1	188.5	145.1	118.7	100.8	87.9	78.0	70.2	58.8	50.6	33.0
2V Cells	4 OPzV 200	353.4	327.8	270.0	230.1	201.0	135.7	104.1	85.2	72.4	63.2	56.3	50.8	42.6	36.9	24.3
	5 OPzV 250	438.8	407.2	336.0	286.6	250.5	169.4	130.0	106.4	90.5	79.0	70.3	63.4	53.3	46.1	30.3
	6 OPzV 300	520.8	483.6	400.1	341.9	299.1	202.7	155.7	127.5	108.5	94.7	84.3	76.1	63.9	55.3	36.4
	5 OPzV 350	533.8	503.0	429.9	375.9	334.3	233.7	182.0	150.3	128.5	112.7	100.6	91.0	76.7	66.5	44.0
	6 OPzV 420	630.0	594.1	509.3	446.4	397.6	279.1	217.7	179.9	154.0	135.0	120.6	109.1	92.0	79.7	52.8
	7 OPzV 490	714.2	676.7	582.8	512.7	457.8	323.1	252.7	209.1	179.1	157.2	140.4	127.1	107.2	93.0	61.7
	6 OPzV 600	723.6	702.0	623.1	561.2	510.7	376.1	299.5	250.2	215.5	189.8	169.9	154.0	130.1	113.0	75.2
	8 OPzV 800	992.6	957.9	847.3	760.7	690.6	505.9	401.7	335.0	288.3	253.7	227.0	205.6	173.7	150.8	100.2
	10 OPzV 1000	1225.8	1185.9	1050.2	944.2	858.0	630.0	500.9	418.0	359.9	316.8	283.4	256.8	217.0	188.4	125.3
	12 OPzV 1200	1430.0	1389.4	1235.9	1114.4	1014.9	749.5	597.5	499.4	430.4	379.1	339.4	307.7	260.1	226.0	150.4
	12 OPzV 1500	1724.1	1670.7	1483.7	1335.7	1215.0	893.5	710.3	592.2	509.3	447.9	400.4	362.5	305.7	265.0	175.2
	16 OPzV 2000	2320.1	2244.4	1990.5	1790.9	1627.7	1194.8	948.9	790.7	679.8	597.7	534.2	483.6	407.7	353.4	233.6
	20 OPzV 2500	2957.1	2850.5	2520.4	2263.0	2053.3	1500.8	1189.7	990.4	851.0	747.8	668.2	604.7	509.7	441.7	291.8
	24 OPzV 3000	3369.5	3279.0	2920.1	2635.8	2402.3	1775.0	1414.3	1180.6	1016.3	894.2	799.7	724.3	611.1	529.9	350.6

		End Voltage 1.75 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	99.7	90.9	72.5	60.7	52.3	34.3	25.8	20.8	17.5	15.2	13.4	12.1	10.1	8.6	5.6
	12V 2 OPzV 100	199.5	181.9	145.1	121.3	104.6	68.5	51.6	41.6	35.1	30.4	26.9	24.1	20.1	17.3	11.2
	12V 3 OPzV 150	285.2	261.6	211.2	177.9	154.2	102.0	77.0	62.3	52.6	45.6	40.3	36.2	30.2	25.9	16.8
	6V 4 OPzV 200	376.5	346.5	281.4	237.7	206.3	136.8	103.5	83.8	70.7	61.4	54.3	48.8	40.7	35.0	22.7
	6V 5 OPzV 250	461.6	425.9	347.6	294.4	256.0	170.5	129.2	104.7	88.3	76.7	67.9	61.0	50.8	43.7	28.4
	6V 6 OPzV 300	535.7	496.1	408.0	347.5	303.2	203.3	154.5	125.3	105.9	91.9	81.4	73.2	61.0	52.5	34.1
2V Cells	4 OPzV 200	405.2	373.2	301.8	253.4	219.1	144.6	109.6	89.1	75.4	65.7	58.3	52.5	44.0	38.0	24.9
	5 OPzV 250	503.3	463.9	375.8	315.9	273.2	180.6	137.0	111.3	94.3	82.1	72.9	65.7	55.0	47.5	31.2
	6 OPzV 300	597.3	551.5	448.0	377.3	326.7	216.4	164.2	133.5	113.1	98.5	87.5	78.8	66.0	57.0	37.4
	5 OPzV 350	616.3	578.0	487.1	420.5	370.1	252.6	194.1	159.0	135.2	118.1	105.1	94.8	79.7	68.9	45.5
	6 OPzV 420	727.7	683.0	578.0	500.3	441.0	302.1	232.5	190.5	162.2	141.7	126.1	113.8	95.6	82.8	54.6
	7 OPzV 490	828.3	779.5	662.7	575.9	509.0	350.6	270.5	221.9	189.0	165.2	147.1	132.8	111.6	96.6	63.8
	6 OPzV 600	846.3	809.1	712.1	635.4	573.0	411.9	323.6	267.8	229.1	200.7	178.9	161.6	136.0	117.7	77.8
	8 OPzV 800	1158.2	1103.0	966.2	859.5	773.4	552.7	433.0	357.8	305.9	267.8	238.6	215.5	181.2	156.8	103.6
	10 OPzV 1000	1431.9	1365.6	1198.7	1067.7	961.7	689.0	540.4	446.8	382.1	334.6	298.2	269.4	226.5	196.1	129.6
	12 OPzV 1200	1680.6	1603.7	1413.1	1262.9	1140.0	821.5	646.0	535.0	458.0	401.3	357.8	323.3	272.0	235.5	155.7
	12 OPzV 1500	2012.4	1921.9	1691.1	1509.4	1361.2	977.0	766.3	633.1	540.8	473.1	421.3	380.2	319.2	275.9	181.3
	16 OPzV 2000	2706.4	2580.3	2268.2	2022.4	1822.2	1305.4	1022.9	844.8	721.4	630.9	561.7	507.0	425.6	367.8	241.6
	20 OPzV 2500	3438.7	3276.3	2872.4	2554.2	2296.8	1638.7	1281.9	1057.6	902.6	789.2	702.5	633.9	532.0	459.7	301.9
	24 OPzV 3000	3951.7	3772.0	3332.5	2981.8	2695.4	1943.5	1527.7	1263.8	1080.3	945.6	842.2	760.4	638.6	552.1	362.9

Performance Data

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

		End Voltage 1.70 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	110.6	100.2	78.6	65.0	55.4	35.4	26.4	21.3	17.9	15.5	13.7	12.3	10.2	8.8	5.7
	12V 2 OPzV 100	221.2	200.4	157.2	129.9	110.8	70.8	52.8	42.5	35.8	31.0	27.4	24.6	20.4	17.6	11.4
	12V 3 OPzV 150	317.2	289.2	229.9	191.5	164.3	105.7	79.1	63.8	53.7	46.5	41.1	36.9	30.7	26.4	17.1
	6V 4 OPzV 200	418.1	382.6	305.9	255.4	219.5	141.9	106.3	85.8	72.2	62.6	55.3	49.7	41.4	35.5	23.0
	6V 5 OPzV 250	513.2	470.9	378.4	316.9	272.9	177.1	132.8	107.2	90.3	78.2	69.2	62.1	51.7	44.5	28.8
	6V 6 OPzV 300	596.5	549.5	445.5	375.0	324.2	211.8	159.2	128.5	108.3	93.9	83.0	74.6	62.1	53.4	34.6
2V Cells	4 OPzV 200	450.9	412.3	326.8	270.8	231.6	149.3	112.3	90.9	76.9	66.9	59.3	53.4	44.7	38.6	25.3
	5 OPzV 250	560.2	512.7	407.1	337.7	289.1	186.5	140.4	113.6	96.1	83.6	74.2	66.8	55.9	48.3	31.6
	6 OPzV 300	665.4	609.9	485.8	403.7	346.0	223.6	168.4	136.3	115.3	100.3	89.0	80.1	67.1	57.9	38.0
	5 OPzV 350	690.4	644.2	534.6	455.6	397.0	264.1	200.5	163.2	138.4	120.7	107.2	96.7	81.1	70.1	46.2
	6 OPzV 420	815.9	762.1	635.2	542.8	473.8	316.4	240.4	195.8	166.1	144.8	128.7	116.1	97.4	84.2	55.5
	7 OPzV 490	929.5	870.9	730.0	626.2	548.2	368.1	280.2	228.4	193.8	169.0	150.3	135.5	113.8	98.4	64.8
	6 OPzV 600	952.9	906.0	789.4	697.2	623.1	437.3	338.2	277.3	236.0	206.1	183.3	165.4	138.8	120.0	79.1
	8 OPzV 800	1300.2	1233.7	1070.0	941.4	839.1	585.6	451.7	369.9	314.7	274.6	244.2	220.3	184.9	159.8	105.3
	10 OPzV 1000	1608.8	1528.3	1328.0	1170.4	1044.5	730.7	564.3	462.3	393.4	343.4	305.4	275.4	231.2	199.9	131.8
	12 OPzV 1200	1888.6	1796.4	1567.8	1386.9	1240.8	873.1	676.0	554.5	472.1	412.2	366.7	330.8	277.8	240.2	158.4
	12 OPzV 1500	2257.7	2148.0	1872.7	1654.1	1478.5	1036.1	800.0	655.1	556.7	485.5	431.4	388.8	325.8	281.3	184.4
	16 OPzV 2000	3033.7	2883.0	2510.0	2214.9	1977.8	1383.4	1067.3	873.7	742.3	647.2	575.0	518.2	434.3	374.9	245.7
	20 OPzV 2500	3855.7	3660.5	3175.8	2795.0	2490.7	1735.0	1336.4	1093.2	928.5	809.4	719.0	647.9	542.8	468.6	307.0
	24 OPzV 3000	4428.2	4217.9	3692.3	3271.8	2930.9	2064.2	1597.2	1309.1	1113.0	970.9	862.9	777.8	652.0	563.0	369.1

		End Voltage 1.65 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	120.0	107.9	83.2	67.6	57.0	35.9	26.8	21.5	18.1	15.7	13.8	12.4	10.3	8.9	5.7
	12V 2 OPzV 100	240.0	215.9	166.5	135.2	114.0	71.8	53.5	43.0	36.2	31.3	27.7	24.8	20.6	17.7	11.5
	12V 3 OPzV 150	345.1	312.7	244.6	200.5	169.8	107.5	80.2	64.6	54.3	47.0	41.5	37.3	31.0	26.6	17.3
	6V 4 OPzV 200	454.7	413.4	325.1	267.6	227.2	144.4	107.8	86.8	73.1	63.3	55.9	50.2	41.8	35.9	23.3
	6V 5 OPzV 250	558.6	509.5	402.8	332.7	283.1	180.3	134.7	108.5	91.3	79.1	69.9	62.8	52.3	44.9	29.1
	6V 6 OPzV 300	650.3	595.7	475.4	395.1	337.5	215.9	161.6	130.2	109.6	95.0	84.0	75.4	62.8	54.0	35.0
2V Cells	4 OPzV 200	490.6	444.8	345.6	282.1	238.6	151.6	113.7	92.0	77.7	67.6	59.9	53.9	45.2	39.0	25.5
	5 OPzV 250	609.7	553.5	430.9	352.1	298.0	189.5	142.2	115.0	97.1	84.5	74.9	67.4	56.5	48.7	31.9
	6 OPzV 300	724.7	659.1	514.7	421.4	357.0	227.2	170.5	137.9	116.6	101.4	89.9	81.0	67.8	58.5	38.3
	5 OPzV 350	756.4	701.9	572.7	481.9	415.5	269.9	203.7	165.4	140.2	122.1	108.4	97.8	82.0	70.9	46.6
	6 OPzV 420	894.0	831.1	681.3	574.9	496.6	323.6	244.4	198.5	168.2	146.6	130.2	117.4	98.5	85.1	56.0
	7 OPzV 490	1020.1	950.9	784.6	664.8	576.0	377.0	285.0	231.7	196.4	171.1	152.0	137.1	115.0	99.4	65.5
	6 OPzV 600	1047.7	992.9	855.2	747.1	661.8	452.2	345.6	282.1	239.6	208.9	185.7	167.4	140.4	121.4	79.9
	8 OPzV 800	1426.8	1349.8	1157.1	1007.0	889.6	604.2	461.1	376.1	319.3	278.3	247.3	222.9	187.0	161.6	106.4
	10 OPzV 1000	1767.2	1673.3	1437.3	1253.0	1108.2	754.6	576.2	470.1	399.2	348.0	309.3	278.8	233.8	202.1	133.1
	12 OPzV 1200	2075.5	1968.7	1699.9	1487.2	1319.0	903.5	691.1	564.3	479.3	418.0	371.5	335.0	281.0	242.9	160.0
	12 OPzV 1500	2476.8	2349.0	2026.4	1771.0	1569.1	1070.3	817.0	666.2	565.0	492.1	436.9	393.6	329.6	284.4	186.3
	16 OPzV 2000	3325.7	3152.1	2715.2	2369.7	2097.7	1428.1	1089.6	888.2	753.1	655.9	582.4	524.6	439.2	379.0	248.2
	20 OPzV 2500	4232.2	4003.5	3432.9	2987.5	2639.2	1789.5	1363.8	1111.2	942.0	820.2	728.1	655.8	549.1	473.7	310.2
	24 OPzV 3000	4861.4	4617.7	3999.8	3507.7	3114.7	2135.5	1632.5	1331.9	1129.9	984.4	874.2	787.5	659.6	569.3	372.9

		End Voltage 1.60 V/cell														
		10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	7 h	8 h	10 h	12 h	20 h
Monoblocks	12V 1 OPzV 50	128.0	114.3	86.1	68.9	57.8	36.2	27.0	21.7	18.2	15.8	13.9	12.5	10.4	8.9	5.8
	12V 2 OPzV 100	255.9	228.5	172.2	137.8	115.6	72.5	53.9	43.4	36.4	31.5	27.9	25.0	20.8	17.9	11.6
	12V 3 OPzV 150	369.1	332.2	254.6	205.2	172.5	108.6	80.9	65.1	54.7	47.3	41.8	37.5	31.2	26.8	17.4
	6V 4 OPzV 200	486.0	439.0	338.7	274.2	231.1	145.8	108.7	87.5	73.6	63.7	56.3	50.5	42.1	36.1	23.4
	6V 5 OPzV 250	598.0	541.6	420.5	341.5	288.2	182.1	135.9	109.4	92.0	79.7	70.4	63.2	52.6	45.2	29.3
	6V 6 OPzV 300	697.1	634.7	498.1	407.0	344.3	218.3	163.0	131.3	110.5	95.7	84.6	75.9	63.2	54.3	35.2
2V Cells	4 OPzV 200	524.0	471.1	358.5	288.1	242.2	153.0	114.6	92.6	78.3	68.0	60.3	54.3	45.5	39.2	25.7
	5 OPzV 250	651.6	586.5	447.2	359.8	302.5	191.2	143.3	115.8	97.8	85.0	75.4	67.9	56.8	49.0	32.1
	6 OPzV 300	775.3	698.9	534.8	430.9	362.6	229.4	171.9	139.0	117.4	102.1	90.5	81.5	68.2	58.9	38.6
	5 OPzV 350	814.0	750.5	602.1	499.4	425.6	273.1	205.6	166.8	141.3	123.0	109.3	98.5	82.6	71.4	47.0
	6 OPzV 420	963.0	889.9	717.3	596.8	509.4	327.5	246.7	200.2	169.6	147.7	131.2	118.2	99.2	85.7	56.4
	7 OPzV 490	1099.7	1019.5	827.7	691.7	592.1	381.8	287.8	233.7	198.0	172.5	153.2	138.1	115.9	100.1	65.9
	6 OPzV 600	1132.1	1069.0	909.7	786.1	689.5	459.8	349.7	284.9	241.8	210.7	187.2	168.7	141.5	122.3	80.5
	8 OPzV 800	1540.5	1452.3	1229.0	1057.6	924.7	613.9	466.3	379.7	322.1	280.7	249.3	224.7	188.4	162.7	107.1
	10 OPzV 1000	1908.5	1801.3	1527.6	1316.9	1153.1	766.9	582.9	474.7	402.8	351.0	311.8	281.0	235.6	203.6	134.0
	12 OPzV 1200	2243.3	2120.7	1809.2	1566.0	1375.4	919.2	699.4	570.0	483.7	421.6	374.6	337.7	283.2	244.7	161.1
	12 OPzV 1500	2672.7	2527.2	2153.9	1862.2	1633.2	1088.1	826.5	672.7	570.0	496.3	440.5	396.7	332.1	286.5	187.6
	16 OPzV 2000	3588.0	3389.9	2884.1	2490.5	2182.0	1451.4	1102.0	896.9	759.9	661.5	587.1	528.7	442.6	381.8	249.9
	20 OPzV 2500	4565.1	4302.7	3643.6	3136.8	2741.7	1817.7	1379.1	1121.9	950.3	827.1	734.0	661.0	553.2	477.2	312.3
	24 OPzV 3000	5248.2	4969.2	4256.3	3692.8	3247.7	2172.6	1651.9	1345.2	1140.2	992.8	881.4	793.8	664.7	573.5	375.5

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