



OPzV Batteries

Solutions for the toughest requirements

*T*he company

Triathlon System GmbH is your specialist for battery-operated electrical systems with branches across Germany. Our comprehensive and competent consulting is based on our specialist know-how and many years of experience in battery and charger technology.

Decades of experience and technical expertise, combined with state-of-the-art production facilities ensure the highest quality of batteries available.

Our product range includes batteries of all current technologies, as well as emergency lighting systems, UPS systems, DC power systems and systems for many other applications. Our installation and service teams ensure the installation and proper functioning of our products. The range of services is supported by reputable and reliable partners only.



Only the sum of the benefits decides!

Series OPzV Product Range

Proven and practical power delivery systems

OPzV batteries are valve regulated lead-acid batteries which utilize the proven gel electrolyte immobilization technology. The powerful tubular plate technology delivers long service life and greater cycle life. These batteries are ideally suited for applications such as hazard detection, emergency lighting, telecommunications and rail. The OPzV battery range delivers value through efficient performance and overall cost savings. They are maintenance free and require no watering. The battery is fully recyclable.

Applications

OPzV batteries have been utilized for decades in a wide variety of applications by many prominent customers.

Quality features

- ✓ Maximum operational reliability
- ✓ Valve regulated lead acid battery technology - maintenance-free
- ✓ Deep discharge resistant
- ✓ Low energy consumption
- ✓ Long-lasting tubular-plate technology
- ✓ Installation horizontally possible up to 1200 Ah
- ✓ Extremely low gassing
- ✓ Suitable for storage near to 2 years
- ✓ Completely recyclable
- ✓ Simple to install and servicing
- ✓ Production according to DIN 40742 and IEC 60896-21/22
- ✓ High capacity and cyclic power
- ✓ Low self-discharge <2 % at 20 °C (68 °F)
- ✓ Operating temperature -20 °C to +55 °C
- ✓ Servicelife 12 plus years

OPzV Cells

Cell Construction

Positive Plates

OPzV Cells are manufactured with tubular positive plates. The construction of these tubular plates are proven and extremely reliable.

Negative Plates

The negative plates are manufactured with grid plates with a lead calcium tin alloy.

Separators

The separators are manufactured from microporous PVC, a material of high porosity, low electrical resistance and high acid resistance. The separators are permeable and allow the migration of ions during the charging and discharging process of the battery. Thus the solid particle migration between the plates is prevented and any short circuit avoided.

Connectors

A wide variety of flexible and solid copper connectors are used for the connection of the cells.

Vent Plugs

The Vent Plug is a one way pressure release valve with an integral flame arrestor.

The Electrolyte

The electrolyte used in OPzV-cells is sulfuric acid, immobilized as gel.

Cell Containers

The OPzV-cell containers are built up of high-grade ABS synthetic material. ABS provides a robust and durable solution for the desing of the cell containers.

Poles

Specially designed safety poles, effectively prevent acid leakage and pillar corrosion thus increasing the lifetime of the battery.

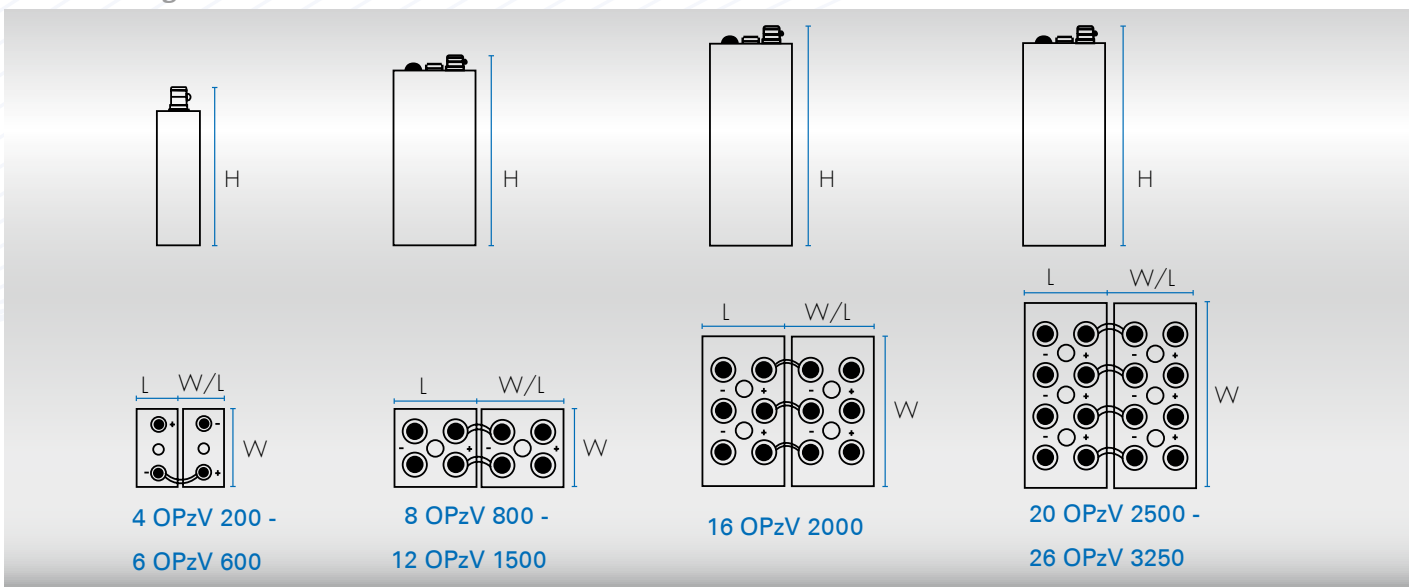


Technical Characteristics

Cell type to DIN	Nominal voltage	Nominal capacity C ₁₀	Actual Capacity C ₁₀ 1.80 V/Z 20 C Ah	Length (L)	Width (B)	Height* (H)	Installed Length (B/L)	Weight	Internal resistance	max. discharge current	Connection	Pole-pairs
Blocks: 40 737-3 Cells: 40 736-1	V	Ah		max. mm	max. mm	max. mm	mm	kg	mOhm	A		
OPzV Cells												
4 OPzV 200	2	200	225	105	208	367	115	18.4	0.95	1650	M10	1
5 OPzV 250	2	250	280	126	208	367	136	22.2	0.78	2100	M10	1
6 OPzV 300	2	300	335	147	208	367	157	26.2	0.63	2550	M10	1
5 OPzV 350	2	350	415	126	208	484	136	30.7	0.63	2800	M10	1
6 OPzV 420	2	420	500	147	208	484	157	36.2	0.54	3400	M10	1
7 OPzV 490	2	490	580	168	208	484	178	41.7	0.46	4050	M10	1
6 OPzV 600	2	600	710	147	208	658	157	50.0	0.51	4350	M10	1
8 OPzV 800	2	800	950	212	193	658	222	66.3	0.39	4550	M10	2
10 OPzV 1000	2	1000	1185	212	235	658	222	81.7	0.33	6050	M10	2
12 OPzV 1200	2	1200	1420	212	277	658	222	97.0	0.28	7600	M10	2
12 OPzV 1500	2	1500	1650	212	277	809	222	111.9	0.25	8500	M10	2
16 OPzV 2000	2	2000	2200	215	400	784	225	155.6	0.21	10500	M10	3
20 OPzV 2500	2	2500	2740	214	489	784	224	190.1	0.16	13000	M10	4
22 OPzV 2750	2	2750	3025	214	578	784	224	216.4	0.13	14600	M10	4
24 OPzV 3000	2	3000	3300	214	578	784	224	226.2	0.11	16000	M10	4
26 OPzV 3250	2	3250	3575	214	578	784	224	236.0	0.11	17300	M10	4
OPzV Blocks												
12V 1 OPzV 50	12	50	51	272	205	332	282	43.0	19.80	620	M10	2
12V 2 OPzV 100	12	100	102	272	205	332	282	52.0	9.90	1240	M10	2
12V 3 OPzV 150	12	150	153	380	205	332	390	72.0	7.08	1720	M10	2
6V 4 OPzV 200	6	200	206	272	205	332	282	48.0	2.70	2260	M10	2
6V 5 OPzV 250	6	250	257	380	205	332	390	63.0	2.22	2740	M10	2
6V 6 OPzV 300	6	300	309	380	205	332	390	70.0	1.89	3220	M10	2

* Hight incl. pole connector

Drawings



pole connector M10; torque 23 Nm +/- 1

OPzV Cells and blocks

1.90V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells										
4 OPzV 200		144.0	126.1	107.1	76.3	59.7	45.8	31.1	21.4	18.3
5 OPzV 250		180.4	157.9	134.1	95.6	74.7	57.3	39.0	26.8	22.9
6 OPzV 300		215.9	189.0	160.5	114.4	89.4	68.6	46.6	32.1	27.4
5 OPzV 350		243.5	230.4	186.6	142.8	113.6	93.1	65.0	44.5	36.5
6 OPzV 420		293.4	277.6	224.8	172.0	136.8	112.2	78.3	53.7	44.0
7 OPzV 490		341.0	322.6	261.2	199.9	159.0	130.4	91.0	62.4	51.1
6 OPzV 600		252.6	246.4	231.5	204.1	158.9	136.6	96.0	68.0	57.2
8 OPzV 800		340.8	332.3	312.3	275.3	214.3	184.3	129.5	91.8	77.1
10 OPzV 1000		442.4	411.9	387.0	341.2	265.7	228.4	160.5	113.7	95.6
12 OPzV 1200		505.5	492.9	463.2	408.3	317.9	273.3	192.1	136.1	114.4
12 OPzV 1500		523.2	507.1	484.4	440.2	355.9	287.7	210.1	153.9	133.8
16 OPzV 2000		695.2	673.9	643.7	585.0	473.0	382.3	279.2	204.5	177.8
20 OPzV 2500		867.3	840.7	803.0	729.8	590.0	476.9	348.2	255.1	221.8
22 OPzV 2750		959.2	929.8	888.1	807.1	652.6	527.4	385.2	282.1	245.3
24 OPzV 3000		1046.4	1014.3	968.8	880.5	711.9	575.4	420.2	307.8	267.6
26 OPzV 3250		1133.6	1098.8	1049.5	953.8	771.2	623.3	455.2	333.4	289.9
OPzV blocks										
12V 1 OPzV 50		30.4	29.0	24.2	18.5	12.8	9.9	6.9	4.8	4.1
12V 2 OPzV 100		60.8	58.0	48.4	37.0	25.6	19.8	13.9	9.7	8.1
12V 3 OPzV 150		84.4	82.2	69.5	53.6	37.5	29.2	20.5	14.4	12.1
6V 4 OPzV 200		111.0	109.6	93.5	72.7	51.1	39.8	28.0	19.7	16.5
6V 5 OPzV 250		135.8	133.0	114.9	89.7	63.4	49.5	34.9	24.5	20.6
6V 6 OPzV 300		154.0	153.4	133.7	105.2	74.9	58.7	41.5	29.2	24.6
1.87V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells										
4 OPzV 200		173.0	156.0	124.0	83.8	64.8	49.6	34.9	24.4	20.5
5 OPzV 250		216.1	194.9	154.9	104.7	80.9	62.0	43.5	30.5	25.6
6 OPzV 300		258.4	233.0	185.2	125.2	96.8	74.1	52.0	36.4	30.6
5 OPzV 350		331.1	283.2	238.5	162.6	122.6	98.8	69.3	47.9	38.9
6 OPzV 420		399.1	341.4	287.5	196.0	147.7	119.1	83.5	57.7	46.9
7 OPzV 490		463.0	396.1	333.5	227.4	171.4	138.2	96.9	66.9	54.4
6 OPzV 600		319.1	311.1	290.0	235.3	184.4	148.4	106.8	73.9	62.1
8 OPzV 800		427.6	416.8	388.5	315.3	247.1	198.8	143.1	99.0	83.2
10 OPzV 1000		535.4	521.9	486.5	394.8	309.4	249.0	179.2	124.0	104.2
12 OPzV 1200		641.7	625.5	583.0	473.2	370.8	298.4	214.7	148.6	124.8
12 OPzV 1500		627.3	615.6	598.1	475.6	402.6	329.7	229.0	164.8	145.9
16 OPzV 2000		838.0	822.4	799.0	635.3	537.9	440.4	306.0	220.2	194.9
20 OPzV 2500		1044.4	1025.0	995.8	791.8	670.4	548.9	381.3	274.5	242.9
22 OPzV 2750		1154.0	1132.5	1100.3	874.9	740.7	606.5	421.4	303.3	268.4
24 OPzV 3000		1258.9	1235.5	1200.4	954.4	808.1	661.7	459.7	330.8	292.8
26 OPzV 3250		1363.8	1338.5	1300.4	1034.0	875.4	716.8	498.0	358.4	317.2
OPzV blocks										
12V 1 OPzV 50		36.6	34.0	28.1	21.2	14.4	11.1	7.7	5.3	4.5
12V 2 OPzV 100		73.1	68.1	56.3	42.4	28.9	22.2	15.4	10.7	8.9
12V 3 OPzV 150		103.1	97.0	81.0	61.7	42.5	32.8	22.8	15.9	13.3
6V 4 OPzV 200		135.2	129.1	108.7	83.4	57.7	44.5	31.0	21.6	18.1
6V 5 OPzV 250		164.7	158.2	133.7	103.0	71.6	55.4	38.6	27.0	22.6
6V 6 OPzV 300		191.3	183.2	155.8	121.1	84.8	65.8	46.0	32.2	27.0

Deviation about +/- 1.5 % possible

Discharge data in ampere at 20° C

1.85 V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells										
4 OPzV 200		194.1	171.0	137.0	91.6	68.3	52.0	36.2	24.8	21.4
5 OPzV 250		241.3	212.6	170.3	113.9	84.9	64.7	45.0	30.9	26.6
6 OPzV 300		288.5	254.2	203.6	136.1	101.5	77.3	53.8	36.9	31.8
5 OPzV 350		331.3	290.5	248.5	175.8	123.6	103.8	72.7	49.7	40.4
6 OPzV 420		398.5	349.4	298.9	211.4	148.7	124.9	87.5	59.8	48.6
7 OPzV 490		462.5	405.6	346.9	245.4	172.6	145.0	101.5	69.4	56.4
6 OPzV 600		378.6	349.3	319.5	255.8	190.3	156.5	113.0	77.9	64.9
8 OPzV 800		507.8	468.6	428.5	343.2	255.2	209.9	151.6	104.5	87.1
10 OPzV 1000		635.1	586.1	536.0	429.2	319.2	262.6	189.6	130.7	108.9
12 OPzV 1200		761.2	702.4	642.4	514.4	382.6	314.7	227.2	156.7	130.6
12 OPzV 1500		778.8	734.1	616.5	491.4	419.9	344.0	241.2	171.2	148.9
16 OPzV 2000		1035.0	975.6	819.3	653.1	558.1	457.1	320.6	227.6	197.9
20 OPzV 2500		1296.5	1222.2	1026.3	818.1	699.1	572.7	401.6	285.1	247.9
22 OPzV 2750		1427.7	1345.8	1130.2	900.9	769.8	630.6	442.2	313.9	273.0
24 OPzV 3000		1557.5	1468.2	1232.9	982.8	839.8	687.9	482.4	342.5	297.8
26 OPzV 3250		1687.3	1590.5	1335.7	1064.7	909.8	745.3	522.6	371.0	322.6
OPzV blocks										
12V 1 OPzV 50		40.4	37.3	30.7	22.9	15.4	11.8	8.1	5.6	4.7
12V 2 OPzV 100		80.7	74.7	61.3	45.8	30.9	23.6	16.2	11.2	9.4
12V 3 OPzV 150		114.6	106.5	88.5	66.8	45.6	34.9	24.2	16.8	14.0
6V 4 OPzV 200		151.5	141.6	118.5	90.1	61.6	47.3	32.7	22.7	19.0
6V 5 OPzV 250		185.8	173.7	145.9	111.4	76.5	58.8	40.8	28.3	23.7
6V 6 OPzV 300		211.4	201.3	170.3	131.1	90.8	70.0	48.7	33.9	28.3
1.83 V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells										
4 OPzV 200		209.0	182.0	148.1	95.2	71.4	54.2	38.1	26.1	22.3
5 OPzV 250		259.6	226.0	183.9	118.3	88.6	67.3	47.4	32.4	27.7
6 OPzV 300		311.1	270.9	220.5	141.8	106.2	80.7	56.8	38.8	33.2
5 OPzV 350		349.2	296.3	264.4	186.6	125.7	105.7	74.6	50.8	40.9
6 OPzV 420		420.8	357.1	318.6	224.8	151.5	127.5	89.9	61.2	49.3
7 OPzV 490		488.3	414.4	369.7	260.9	175.8	147.9	104.4	71.0	57.2
6 OPzV 600		394.7	383.9	347.4	275.5	210.5	167.1	119.2	82.7	67.3
8 OPzV 800		529.2	514.7	465.7	369.4	282.2	224.1	159.8	110.9	90.2
10 OPzV 1000		661.3	643.1	582.0	461.6	352.6	280.0	199.7	138.6	112.8
12 OPzV 1200		793.6	771.8	698.4	553.9	423.2	336.0	239.7	166.3	135.3
12 OPzV 1500		847.1	812.9	712.3	538.3	444.7	375.3	261.6	179.1	153.9
16 OPzV 2000		1133.3	1087.6	953.0	720.1	594.9	502.1	350.0	239.6	205.9
20 OPzV 2500		1414.0	1356.9	1189.0	898.4	742.3	626.4	436.6	298.9	256.9
22 OPzV 2750		1558.2	1495.2	1310.2	990.0	817.9	690.3	481.1	329.4	283.1
24 OPzV 3000		1699.8	1631.2	1429.3	1080.0	892.3	753.0	524.9	359.3	308.9
26 OPzV 3250		1841.5	1767.1	1548.4	1170.0	966.7	815.8	568.6	389.3	334.6
OPzV blocks										
12V 1 OPzV 50		44.0	40.6	33.1	24.5	16.3	12.4	8.5	5.9	4.9
12V 2 OPzV 100		88.0	81.1	66.2	48.9	32.6	24.8	17.0	11.7	9.8
12V 3 OPzV 150		125.0	116.0	95.7	71.6	48.3	36.8	25.4	17.5	14.6
6V 4 OPzV 200		165.5	154.1	128.1	96.4	65.2	49.7	34.2	23.7	19.7
6V 5 OPzV 250		202.5	188.9	157.8	119.3	81.0	61.9	42.7	29.5	24.6
6V 6 OPzV 300		233.5	219.1	184.3	140.6	96.2	73.8	51.0	35.4	29.5

Deviation about +/- 1.5 % possible

OPzV Cells and blocks

1.80V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cellss										
4 OPzV 200		232.0	207.0	157.1	99.9	74.5	58.1	39.2	26.6	22.5
5 OPzV 250		288.7	257.6	195.4	124.3	92.7	72.2	48.7	33.0	28.0
6 OPzV 300		345.4	308.2	233.8	148.7	110.9	86.4	58.3	39.5	33.5
5 OPzV 350		417.1	373.1	279.3	200.4	135.7	108.7	79.3	51.0	41.5
6 OPzV 420		502.5	449.5	336.5	241.5	163.5	131.0	95.5	61.5	50.0
7 OPzV 490		582.9	521.4	390.3	280.1	189.7	152.0	110.8	71.3	58.0
6 OPzV 600		462.9	433.8	367.8	297.5	215.1	175.4	123.5	84.5	71.0
8 OPzV 800		619.4	580.5	492.1	398.1	287.9	234.7	165.3	113.1	95.0
10 OPzV 1000		772.6	724.0	613.8	496.5	359.1	292.7	206.2	141.0	118.5
12 OPzV 1200		925.8	867.6	735.6	595.0	430.3	350.7	247.1	169.0	142.0
12 OPzV 1500		965.3	904.2	811.8	651.8	470.3	401.0	272.3	186.5	165.0
16 OPzV 2000		1287.0	1205.6	1082.4	869.0	627.0	534.6	363.0	248.6	220.0
20 OPzV 2500		1602.9	1501.5	1348.1	1082.3	780.9	665.8	452.1	309.6	274.0
22 OPzV 2750		1769.6	1657.7	1488.3	1194.9	862.1	735.1	499.1	341.8	302.5
24 OPzV 3000		1930.5	1808.4	1623.6	1303.5	940.5	801.9	544.5	372.9	330.0
26 OPzV 3250		2091.4	1959.1	1758.9	1412.1	1018.9	868.7	589.9	404.0	357.5
OPzV blocks										
12V 1 OPzV 50		49.4	45.3	36.6	26.6	17.5	13.2	9.0	6.1	5.1
12V 2 OPzV 100		98.7	90.7	73.2	53.2	35.0	26.4	17.9	12.3	10.2
12V 3 OPzV 150		140.6	129.9	106.2	78.2	51.9	39.3	26.8	18.4	15.3
6V 4 OPzV 200		185.7	172.3	141.9	105.0	69.8	52.9	36.1	24.8	20.6
6V 5 OPzV 250		227.5	211.4	174.9	130.1	86.9	65.9	45.0	31.0	25.7
6V 6 OPzV 300		263.3	245.6	204.8	153.8	103.5	78.7	53.9	37.1	30.9

1.75V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cellss										
4 OPzV 200		257.2	241.0	179.6	115.4	80.6	61.0	40.8	27.8	23.2
5 OPzV 250		320.1	299.9	223.5	143.6	100.4	75.8	50.8	34.6	28.8
6 OPzV 300		383.0	358.9	267.4	171.8	120.1	90.7	60.7	41.4	34.5
5 OPzV 350		422.5	388.2	299.7	226.5	135.9	111.8	80.9	52.5	42.3
6 OPzV 420		509.0	467.7	361.1	272.9	163.7	134.6	97.4	63.2	51.0
7 OPzV 490		590.4	542.5	418.9	316.5	189.9	156.2	113.0	73.4	59.2
6 OPzV 600		533.8	508.3	442.4	317.4	228.9	185.0	128.7	87.8	73.1
8 OPzV 800		714.3	680.1	592.0	424.7	306.3	247.6	172.2	117.4	97.9
10 OPzV 1000		891.0	848.3	738.4	529.7	382.0	308.8	214.8	146.5	122.1
12 OPzV 1200		1067.7	1016.5	884.9	634.8	457.8	370.0	257.4	175.5	146.3
12 OPzV 1500		1023.0	991.7	933.9	764.0	493.4	427.4	290.4	188.1	165.0
16 OPzV 2000		1364.0	1322.2	1245.2	1018.6	657.8	569.8	387.2	250.8	220.0
20 OPzV 2500		1698.8	1646.7	1550.8	1268.6	819.3	709.7	482.2	312.4	274.0
22 OPzV 2750		1875.5	1818.0	1712.2	1400.6	904.5	783.5	532.4	344.9	302.5
24 OPzV 3000		2046.0	1983.3	1867.8	1527.9	986.7	854.7	580.8	376.2	330.0
26 OPzV 3250		2216.5	2148.6	2023.5	1655.2	1068.9	925.9	629.2	407.6	357.5
OPzV blocks										
12V 1 OPzV 50		58.1	53.0	41.9	29.6	18.9	14.0	9.4	6.4	5.3
12V 2 OPzV 100		116.2	105.9	83.8	59.2	37.8	28.0	18.8	12.8	10.6
12V 3 OPzV 150		165.9	152.3	122.2	87.5	56.4	42.0	28.2	19.2	15.9
6V 4 OPzV 200		219.0	201.7	162.9	117.1	75.7	56.4	37.9	25.8	21.4
6V 5 OPzV 250		268.4	247.9	201.2	145.5	94.4	70.4	47.4	32.3	26.8
6V 6 OPzV 300		311.1	288.5	236.4	172.6	112.8	84.4	56.9	38.8	32.2

Deviation about +/- 1.5 % possible

Discharge data in ampere at 20° C

1.70V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cellss									
4 OPzV 200	286.2	260.7	203.5	119.6	82.3	61.9	40.8	27.6	23.2
5 OPzV 250	356.2	324.5	253.2	148.8	102.4	77.0	50.8	34.3	28.8
6 OPzV 300	426.1	388.2	303.0	178.0	122.5	92.1	60.7	41.1	34.5
5 OPzV 350	462.7	419.9	330.2	229.9	138.4	114.7	80.9	52.5	42.3
6 OPzV 420	557.4	505.9	397.8	276.9	166.8	138.2	97.4	63.2	51.0
7 OPzV 490	653.0	592.6	466.0	324.4	195.3	161.9	114.1	74.1	59.7
6 OPzV 600	617.2	593.8	509.0	379.5	244.3	188.7	130.9	89.2	73.1
8 OPzV 800	825.9	794.5	681.0	507.8	326.8	252.5	175.2	119.4	97.9
10 OPzV 1000	1030.1	991.1	849.5	633.5	407.7	314.9	218.5	148.9	122.1
12 OPzV 1200	1234.4	1187.6	1018.0	759.1	488.5	377.4	261.8	178.4	146.3
12 OPzV 1500	1178.1	1118.7	1031.3	867.9	544.5	447.2	298.7	188.1	165.0
16 OPzV 2000	1570.8	1491.6	1375.0	1157.2	726.0	596.2	398.2	250.8	220.0
20 OPzV 2500	1956.4	1857.7	1712.5	1441.2	904.2	742.5	495.9	312.4	274.0
22 OPzV 2750	2159.9	2051.0	1890.6	1591.2	998.3	819.8	547.5	344.9	302.5
24 OPzV 3000	2356.2	2237.4	2062.5	1735.8	1089.0	894.3	597.3	376.2	330.0
26 OPzV 3250	2552.6	2423.9	2234.4	1880.5	1179.8	968.8	647.1	407.6	357.5
OPzV blocks									
12V 1 OPzV 50	66.5	60.1	46.4	31.7	19.6	14.4	9.6	6.5	5.4
12V 2 OPzV 100	132.9	120.1	92.7	63.4	39.2	28.8	19.2	13.0	10.8
12V 3 OPzV 150	190.4	173.4	135.9	94.3	58.7	43.3	28.9	19.6	16.2
6V 4 OPzV 200	251.1	229.5	181.0	126.1	78.8	58.1	38.8	26.4	21.8
6V 5 OPzV 250	308.0	282.5	224.1	157.1	98.5	72.7	48.6	33.0	27.3
6V 6 OPzV 300	357.8	329.5	264.2	187.2	118.1	87.3	58.4	39.7	32.9

1.65V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cellss									
4 OPzV 200	315.4	280.0	214.6	124.4	83.4	61.9	40.8	27.6	23.2
5 OPzV 250	392.5	348.4	267.1	154.9	103.8	77.0	50.8	34.3	28.8
6 OPzV 300	469.6	416.8	319.5	185.3	124.2	92.1	60.7	41.1	34.5
5 OPzV 350	526.9	486.7	368.0	235.3	139.6	115.7	81.6	52.9	42.7
6 OPzV 420	635.5	587.1	444.0	283.8	168.4	139.6	98.4	63.9	51.5
7 OPzV 490	737.9	681.6	515.4	329.5	195.5	162.0	114.2	74.1	59.8
6 OPzV 600	680.8	672.1	562.4	404.4	247.2	188.7	130.9	89.2	73.1
8 OPzV 800	911.0	899.2	752.5	541.1	330.7	252.5	175.2	119.4	97.9
10 OPzV 1000	1136.3	1121.7	938.6	675.0	412.5	314.9	218.5	148.9	122.1
12 OPzV 1200	1361.7	1344.1	1124.7	808.8	494.4	377.4	261.8	178.4	146.3
12 OPzV 1500	1266.0	1215.8	1115.6	921.9	551.1	450.9	302.3	192.1	167.0
16 OPzV 2000	1682.8	1616.2	1483.0	1225.5	732.6	599.4	401.8	255.3	222.0
20 OPzV 2500	2107.4	2023.9	1857.1	1534.6	917.4	750.6	503.2	319.7	278.0
22 OPzV 2750	2320.9	2229.1	2045.3	1690.2	1010.4	826.7	554.2	352.1	306.2
24 OPzV 3000	2531.9	2431.7	2231.3	1843.8	1102.3	901.9	604.6	384.1	334.0
26 OPzV 3250	2742.9	2634.3	2417.2	1997.5	1194.1	977.0	655.0	416.1	361.9
OPzV blocks									
12V 1 OPzV 50	74.4	66.4	49.8	32.7	19.9	14.6	9.7	6.6	5.5
12V 2 OPzV 100	148.7	132.9	99.7	65.4	39.8	29.2	19.5	13.2	10.9
12V 3 OPzV 150	213.8	192.7	147.2	98.0	59.9	43.9	29.3	19.8	16.4
6V 4 OPzV 200	281.6	255.0	195.8	131.2	80.4	59.0	39.3	26.7	22.1
6V 5 OPzV 250	346.3	314.4	243.0	163.8	100.5	73.9	49.2	33.4	27.7
6V 6 OPzV 300	402.9	367.7	287.7	196.1	120.7	88.8	59.2	40.2	33.3

Deviation about +/- 1.5 % possible

OPzV Cells and blocks

Discharge data in ampere at 20° C

1.60 V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	348.8	303.4	224.6	124.4	83.4	61.9	40.8	27.6	23.2
5 OPzV 250	434.0	377.5	279.5	154.9	103.8	77.0	50.8	34.3	28.8
6 OPzV 300	519.3	451.7	334.4	185.3	124.2	92.1	60.7	41.1	34.5
5 OPzV 350	550.8	506.8	381.3	238.2	139.6	115.7	81.6	52.9	42.7
6 OPzV 420	664.4	611.3	459.9	287.4	168.4	139.6	98.4	63.9	51.5
7 OPzV 490	771.3	709.8	534.0	333.6	195.5	162.0	114.2	74.1	59.8
6 OPzV 600	759.1	740.8	610.6	422.0	247.2	188.7	130.9	89.2	73.1
8 OPzV 800	1015.7	991.2	817.0	564.6	330.7	252.5	175.2	119.4	97.9
10 OPzV 1000	1266.9	1236.4	1019.2	704.3	412.5	314.9	218.5	148.9	122.1
12 OPzV 1200	1518.2	1481.6	1221.3	843.9	494.4	377.4	261.8	178.4	146.3
12 OPzV 1500	1556.6	1414.6	1257.6	965.3	564.5	459.3	305.6	192.1	167.0
16 OPzV 2000	2069.1	1880.4	1671.7	1283.2	750.4	610.5	406.3	255.3	222.0
20 OPzV 2500	2591.1	2354.8	2093.5	1606.9	939.7	764.5	508.8	319.7	278.0
22 OPzV 2750	2853.7	2593.4	2305.6	1769.8	1034.9	842.0	560.3	352.1	306.2
24 OPzV 3000	3113.1	2829.2	2515.2	1930.7	1129.0	918.6	611.3	384.1	334.0
26 OPzV 3250	3372.5	3065.0	2724.8	2091.5	1223.1	995.1	662.2	416.1	361.9
OPzV blocks									
12V 1 OPzV 50	81.6	72.0	51.9	33.2	20.1	14.8	9.8	6.6	5.5
12V 2 OPzV 100	163.2	143.9	103.9	66.5	40.3	29.5	19.6	13.3	11.0
12V 3 OPzV 150	235.6	209.9	154.7	99.8	60.5	44.4	29.5	20.0	16.6
6V 4 OPzV 200	310.5	277.8	206.4	133.8	81.3	59.6	39.7	26.9	22.3
6V 5 OPzV 250	382.1	343.0	256.9	167.2	101.7	74.6	49.7	33.7	27.9
6V 6 OPzV 300	445.8	402.7	305.8	200.7	122.2	89.7	59.7	40.5	33.6

Deviation about +/- 1.5 % possible

Discharge data in watt at 20° C

1.90 V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	274.5	240.3	203.5	146.2	114.7	87.8	59.9	41.2	35.2
5 OPzV 250	344.4	301.6	255.3	182.5	143.7	111.1	76.0	51.8	44.6
6 OPzV 300	410.4	359.3	305.9	219.0	172.5	132.8	90.8	61.9	52.8
5 OPzV 350	447.5	423.3	354.4	271.2	218.6	179.8	125.7	86.3	71.4
6 OPzV 420	544.7	515.3	427.0	328.4	263.7	216.1	151.6	104.5	85.5
7 OPzV 490	637.6	603.2	497.3	380.8	305.7	251.7	176.3	120.7	100.0
6 OPzV 600	483.2	471.2	440.8	389.8	304.4	263.5	185.6	132.2	111.1
8 OPzV 800	649.1	633.0	593.4	524.6	411.3	356.6	251.8	178.8	150.2
10 OPzV 1000	806.0	786.0	735.4	650.4	509.9	440.6	310.7	221.4	186.1
12 OPzV 1200	965.6	941.5	880.7	779.4	611.2	526.2	372.8	265.1	223.7
12 OPzV 1500	995.8	965.2	936.6	838.3	682.7	553.3	406.8	299.5	260.3
16 OPzV 2000	1325.6	1284.9	1233.6	1116.2	906.5	736.5	541.1	397.7	347.3
20 OPzV 2500	1660.8	1609.8	1547.2	1391.9	1130.9	917.3	675.2	494.9	433.2
22 OPzV 2750	1826.7	1770.6	1715.3	1537.9	1249.7	1015.3	745.0	548.2	478.2
24 OPzV 3000	1992.8	1931.6	1871.2	1677.7	1363.3	1107.6	812.7	598.0	521.7
26 OPzV 3250	2158.8	2092.6	2027.1	1817.6	1476.9	1199.9	880.5	647.9	565.1
OPzV blocks									
12V 1 OPzV 50	57.7	54.4	45.3	34.6	24.1	18.8	13.3	9.4	7.9
12V 2 OPzV 100	115.5	108.8	90.5	69.2	48.3	37.6	26.5	18.7	15.8
12V 3 OPzV 150	160.5	154.8	130.0	100.4	70.8	55.4	39.3	27.8	23.4
6V 4 OPzV 200	212.6	206.8	175.0	136.1	96.4	75.6	53.6	38.0	32.0
6V 5 OPzV 250	258.6	253.2	215.0	167.9	119.4	93.9	66.7	47.3	39.9
6V 6 OPzV 300	298.8	291.3	250.2	196.9	141.0	111.2	79.3	56.4	47.6

1.87 V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	323.8	292.0	232.4	158.1	122.8	94.8	67.3	47.1	39.3
5 OPzV 250	403.7	364.0	291.9	197.3	154.0	118.2	83.4	58.8	48.9
6 OPzV 300	484.2	436.6	347.3	237.3	184.4	142.3	100.3	70.5	59.3
5 OPzV 350	613.3	524.7	446.4	306.7	233.4	189.0	133.5	92.7	75.4
6 OPzV 420	740.2	633.2	540.0	368.9	281.4	227.8	160.7	110.7	90.2
7 OPzV 490	862.5	737.8	625.6	429.5	326.4	265.5	186.5	128.8	105.5
6 OPzV 600	602.1	586.9	542.9	442.5	348.0	283.3	204.3	142.6	120.2
8 OPzV 800	802.4	782.1	729.0	594.1	468.3	380.2	274.9	191.8	161.2
10 OPzV 1000	1007.8	982.3	912.2	743.7	585.5	474.2	345.9	239.9	202.3
12 OPzV 1200	1209.1	1178.5	1092.7	891.2	702.0	568.8	413.0	286.1	241.7
12 OPzV 1500	1182.0	1160.0	1121.7	893.8	761.8	627.7	439.1	318.6	282.4
16 OPzV 2000	1573.0	1543.7	1495.1	1194.8	1018.0	837.9	587.0	425.4	377.3
20 OPzV 2500	1964.1	1927.6	1865.1	1487.3	1268.1	1043.3	730.8	530.9	469.2
22 OPzV 2750	2172.5	2132.1	2063.6	1645.1	1401.5	1152.9	808.7	587.1	519.5
24 OPzV 3000	2370.0	2325.9	2251.2	1794.7	1528.9	1257.7	882.2	640.5	566.7
26 OPzV 3250	2567.5	2519.7	2438.8	1944.3	1656.3	1362.5	955.7	693.9	614.0
OPzV blocks									
12V 1 OPzV 50	67.8	62.7	51.8	39.1	27.0	20.9	14.6	10.2	8.6
12V 2 OPzV 100	135.7	125.4	103.5	78.2	53.9	41.7	29.2	20.5	17.2
12V 3 OPzV 150	192.3	178.9	149.1	113.9	79.3	61.6	43.3	30.5	25.6
6V 4 OPzV 200	255.0	238.3	200.0	153.9	107.6	83.7	58.9	41.4	34.8
6V 5 OPzV 250	309.7	292.1	246.1	190.1	133.4	104.0	73.3	51.7	43.4
6V 6 OPzV 300	359.0	338.4	287.0	223.4	157.9	123.5	87.4	61.7	51.9

Deviation about +/- 1.5 % possible

OPzV Cells and blocks

1.85V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV sSingle cells									
4 OPzV 200	359.4	316.6	255.0	171.4	129.2	99.4	69.6	47.8	40.3
5 OPzV 250	446.2	393.0	317.3	213.5	160.3	122.8	85.9	58.8	50.7
6 OPzV 300	535.3	471.5	379.6	256.1	192.5	147.5	102.5	71.1	61.1
5 OPzV 350	612.8	537.4	461.8	328.6	234.0	197.7	138.8	95.5	77.3
6 OPzV 420	736.6	645.8	554.9	395.3	281.9	237.8	166.8	114.2	93.0
7 OPzV 490	856.9	751.4	644.6	457.7	326.4	274.5	194.5	133.5	108.0
6 OPzV 600	707.0	652.4	592.4	476.4	357.5	296.6	216.6	149.4	125.1
8 OPzV 800	945.0	872.1	794.5	640.7	480.6	398.4	288.7	201.9	167.2
10 OPzV 1000	1183.6	1092.2	995.6	800.6	600.5	497.5	362.5	251.3	209.9
12 OPzV 1200	1419.3	1309.7	1192.4	960.5	719.2	595.6	434.7	300.2	251.2
12 OPzV 1500	1455.2	1371.7	1143.4	913.9	786.7	648.9	459.6	329.6	285.6
16 OPzV 2000	1922.0	1811.8	1517.6	1215.9	1045.6	864.4	610.7	437.5	381.7
20 OPzV 2500	2415.3	2276.8	1902.0	1523.2	1309.9	1081.9	765.6	548.5	477.6
22 OPzV 2750	2667.9	2514.9	2094.6	1676.3	1443.2	1190.6	843.5	604.3	524.6
24 OPzV 3000	2910.4	2743.5	2285.1	1828.7	1574.4	1298.9	920.2	659.2	572.3
26 OPzV 3250	3153.0	2972.1	2475.5	1981.0	1705.6	1407.1	996.9	714.2	620.0
OPzV blocks									
12V 1 OPzV 50	73.7	68.0	55.8	41.9	28.6	22.0	15.4	10.7	9.0
12V 2 OPzV 100	147.4	136.0	111.6	83.7	57.2	44.1	30.7	21.5	18.0
12V 3 OPzV 150	209.6	194.2	161.0	122.2	84.4	65.3	45.7	32.0	26.9
6V 4 OPzV 200	277.7	258.3	215.8	164.7	114.1	88.4	61.9	43.4	36.4
6V 5 OPzV 250	339.8	316.9	265.6	203.7	141.6	109.9	77.1	54.1	45.4
6V 6 OPzV 300	392.4	367.5	310.0	239.6	167.9	130.7	91.9	64.7	54.3

1.83V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	383.3	333.8	272.9	178.3	133.9	102.1	72.4	49.4	42.7
5 OPzV 250	476.9	415.3	339.3	220.7	166.7	127.6	90.1	61.7	53.1
6 OPzV 300	571.0	497.2	406.8	264.9	200.0	152.4	108.0	74.1	63.6
5 OPzV 350	638.1	541.4	486.0	346.0	236.5	199.5	142.5	97.5	77.7
6 OPzV 420	772.0	655.1	586.8	417.9	283.8	239.8	171.4	117.4	94.5
7 OPzV 490	894.1	758.7	679.2	484.5	329.2	278.4	198.7	136.1	110.3
6 OPzV 600	723.3	703.4	636.8	508.7	391.9	314.5	226.9	158.2	129.2
8 OPzV 800	968.9	942.3	854.9	681.5	527.3	421.3	304.0	212.5	172.5
10 OPzV 1000	1211.5	1178.3	1068.3	852.5	658.7	527.9	379.6	264.7	216.6
12 OPzV 1200	1453.2	1413.3	1282.9	1023.7	790.4	631.6	456.4	319.1	258.7
12 OPzV 1500	1563.2	1500.1	1307.0	991.1	826.9	702.1	495.5	342.3	293.8
16 OPzV 2000	2085.0	2000.8	1748.1	1326.5	1107.6	942.0	665.0	457.4	394.7
20 OPzV 2500	2603.9	2498.7	2179.8	1654.8	1380.9	1173.8	828.2	571.1	491.7
22 OPzV 2750	2876.3	2760.2	2402.2	1823.0	1522.6	1294.1	912.3	631.4	543.1
24 OPzV 3000	3137.8	3011.1	2620.5	1988.8	1661.0	1411.7	995.2	688.8	592.4
26 OPzV 3250	3399.3	3262.1	2838.9	2154.5	1799.4	1529.4	1078.1	746.2	641.8
OPzV blocks									
12V 1 OPzV 50	79.4	73.0	59.6	44.4	30.1	23.1	16.0	11.2	9.3
12V 2 OPzV 100	158.8	146.1	119.2	88.8	60.2	46.2	32.0	22.3	18.7
12V 3 OPzV 150	225.9	209.0	172.4	129.9	88.9	68.5	47.7	33.3	27.9
6V 4 OPzV 200	299.0	277.6	230.7	174.7	119.9	92.5	64.4	45.0	37.7
6V 5 OPzV 250	366.2	340.6	284.1	216.2	149.0	115.1	80.3	56.2	47.1
6V 6 OPzV 300	423.7	395.3	332.0	254.7	176.9	137.0	95.9	67.2	56.4

Deviation about +/- 1.5 % possible

Discharge data in watt at 20° C

1.80V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	418.5	373.5	286.4	183.6	139.3	109.7	74.9	50.6	42.9
5 OPzV 250	520.6	464.6	355.1	228.8	172.6	135.8	92.4	62.6	53.1
6 OPzV 300	622.7	555.6	424.6	274.0	207.4	163.1	110.9	75.8	64.3
5 OPzV 350	751.0	671.8	506.4	366.8	252.2	204.0	150.5	97.7	79.6
6 OPzV 420	904.5	809.1	609.8	442.0	303.3	246.2	181.0	117.9	95.9
7 OPzV 490	1051.3	940.4	706.1	512.9	351.5	285.9	209.7	135.9	111.1
6 OPzV 600	833.7	781.3	664.0	541.8	396.7	327.2	232.7	160.9	135.0
8 OPzV 800	1116.8	1046.6	889.6	725.6	531.6	437.7	313.0	215.0	181.7
10 OPzV 1000	1393.3	1305.7	1110.3	905.6	664.2	547.5	390.7	269.9	224.9
12 OPzV 1200	1667.2	1562.3	1330.6	1084.6	795.7	654.4	467.4	322.8	270.9
12 OPzV 1500	1750.6	1639.9	1464.2	1184.1	865.2	745.4	510.3	355.2	313.5
16 OPzV 2000	2322.4	2175.6	1954.3	1579.4	1152.4	993.3	682.9	473.7	423.3
20 OPzV 2500	2902.7	2719.1	2433.4	1967.4	1435.8	1237.1	849.2	589.9	526.2
22 OPzV 2750	3204.6	3001.9	2686.5	2172.0	1585.2	1365.8	937.5	651.3	580.9
24 OPzV 3000	3500.3	3278.9	2929.4	2367.3	1729.6	1489.8	1023.6	710.5	632.9
26 OPzV 3250	3791.9	3552.1	3173.6	2564.6	1873.8	1614.0	1108.9	769.	685.7
OPzV blocks									
12V 1 OPzV 50	87.4	80.2	64.9	47.8	32.0	24.4	16.8	11.6	9.7
12V 2 OPzV 100	174.9	160.4	129.8	95.5	64.0	48.8	33.6	23.3	19.4
12V 3 OPzV 150	249.4	229.9	188.2	140.2	94.8	72.5	50.1	34.8	29.1
6V 4 OPzV 200	329.5	305.1	251.4	188.1	127.5	97.7	67.6	47.0	39.2
6V 5 OPzV 250	404.0	374.4	309.9	233.1	158.6	121.7	84.3	58.6	49.0
6V 6 OPzV 300	468.0	435.2	362.8	275.1	188.5	145.1	100.8	70.2	58.8
1.75V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	452.5	424.0	320.0	208.1	149.1	114.4	76.7	52.9	44.4
5 OPzV 250	562.9	527.4	397.6	259.8	186.3	141.7	96.4	65.2	54.7
6 OPzV 300	674.1	631.6	476.0	310.6	222.4	170.0	115.1	78.6	66.1
5 OPzV 350	741.5	681.3	529.3	407.4	250.8	207.2	153.1	100.7	81.0
6 OPzV 420	892.6	820.2	638.3	490.0	302.3	250.7	184.3	121.3	97.7
7 OPzV 490	1035.8	951.7	740.8	569.7	349.8	289.6	213.6	140.7	113.1
6 OPzV 600	935.3	890.5	779.3	565.8	416.4	342.6	243.0	167.5	139.5
8 OPzV 800	1252.9	1192.8	1044.4	758.6	558.0	458.6	324.8	223.5	186.2
10 OPzV 1000	1562.1	1487.2	1301.7	945.7	694.3	571.0	405.0	279.5	232.8
12 OPzV 1200	1872.4	1782.6	1559.3	1133.4	833.2	683.5	485.1	334.6	278.2
12 OPzV 1500	1792.6	1737.6	1641.1	1355.6	891.5	783.3	546.9	359.5	313.5
16 OPzV 2000	2388.5	2315.3	2189.3	1808.4	1189.3	1047.0	729.3	480.0	423.3
20 OPzV 2500	2976.7	2885.5	2725.5	2251.0	1480.5	1302.6	908.3	597.3	526.2
22 OPzV 2750	3286.4	3185.6	3009.5	2483.6	1632.9	1437.8	1002.7	658.2	580.2
24 OPzV 3000	3585.1	3475.3	3283.1	2709.4	1781.4	1568.5	1093.9	718.0	632.9
26 OPzV 3250	3883.9	3764.9	3556.7	2935.2	1929.8	1699.2	1185.0	777.9	685.7
OPzV blocks									
12V 1 OPzV 50	99.7	90.9	72.5	52.3	34.3	25.8	17.5	12.1	10.1
12V 2 OPzV 100	199.5	181.9	145.1	104.6	68.5	51.6	35.1	24.1	20.1
12V 3 OPzV 150	285.2	261.6	211.2	154.2	102.0	77.0	52.6	36.2	30.2
6V 4 OPzV 200	376.5	346.5	281.4	206.3	136.8	103.5	70.7	48.8	40.7
6V 5 OPzV 250	461.6	425.9	347.6	256.0	170.5	129.2	88.3	61.0	50.8
6V 6 OPzV 300	535.7	496.1	408.0	303.2	203.3	154.5	105.9	73.2	61.0

Deviation about +/- 1.5 % possible

OPzV Cells and blocks

1.70V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	492.3	448.4	356.1	215.1	151.4	115.8	77.5	52.4	44.4
5 OPzV 250	610.4	556.1	441.0	267.1	189.4	144.2	96.2	64.7	54.7
6 OPzV 300	731.3	666.2	528.6	320.1	226.3	172.5	114.7	78.0	66.1
5 OPzV 350	790.5	717.5	571.7	406.6	255.2	215.0	153.1	100.7	81.0
6 OPzV 420	952.4	864.4	687.1	490.0	306.1	257.5	184.3	121.3	97.7
7 OPzV 490	1116.1	1013.0	804.2	573.1	358.1	301.5	215.7	142.1	114.3
6 OPzV 600	1051.2	1011.3	874.8	663.0	441.8	348.1	247.1	170.3	139.5
8 OPzV 800	1408.6	1355.2	1170.9	889.7	593.3	466.5	330.4	227.2	186.2
10 OPzV 1000	1756.7	1690.1	1460.3	1108.1	739.6	582.4	411.9	284.2	232.8
12 OPzV 1200	2104.6	2024.8	1749.9	1328.9	885.7	696.3	493.4	340.2	278.2
12 OPzV 1500	2006.0	1904.9	1764.9	1504.8	970.0	822.0	562.5	359.5	313.5
16 OPzV 2000	2674.0	2539.1	2354.0	2006.8	1296.2	1097.2	750.0	480.0	423.3
20 OPzV 2500	3332.1	3164.0	2931.0	2499.0	1613.6	1367.2	934.1	597.3	526.2
22 OPzV 2750	3677.1	3491.7	3235.6	2758.8	1779.2	1508.0	1031.2	658.2	580.2
24 OPzV 3000	4011.4	3809.1	3529.7	3009.6	1940.9	1645.1	1125.0	718.0	632.9
26 OPzV 3250	4345.6	4126.5	3823.8	3260.3	2102.6	1782.2	1218.7	777.9	685.7
OPzV blocks									
12V 1 OPzV 50	110.6	100.2	78.6	55.4	35.4	26.4	17.9	12.3	10.2
12V 2 OPzV 100	221.2	200.4	157.2	110.8	70.8	52.8	35.8	24.6	20.4
12V 3 OPzV 150	317.2	289.2	229.9	164.3	105.7	79.1	53.7	36.9	30.7
6V 4 OPzV 200	418.1	382.6	305.9	219.5	141.9	106.3	72.2	49.7	41.4
6V 5 OPzV 250	513.2	470.9	378.4	272.9	177.1	132.8	90.3	62.1	51.7
6V 6 OPzV 300	596.5	549.5	445.5	324.2	211.8	159.2	108.3	74.6	62.1
1.65V / Cell									
Type	10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells									
4 OPzV 200	527.6	468.3	367.7	221.8	154.0	115.8	77.5	52.4	44.4
5 OPzV 250	657.6	583.7	457.2	276.2	192.3	144.2	96.2	64.7	54.7
6 OPzV 300	787.3	698.8	547.4	330.5	228.6	172.5	114.7	78.0	66.1
5 OPzV 350	875.7	809.0	622.1	412.5	257.5	216.8	154.4	101.6	81.7
6 OPzV 420	1056.7	976.2	749.8	496.1	309.1	260.0	186.1	122.5	98.6
7 OPzV 490	1226.4	1133.0	870.7	576.6	358.5	301.7	215.9	142.2	114.4
6 OPzV 600	1128.8	1114.2	942.1	696.0	446.9	348.1	247.1	170.3	139.5
8 OPzV 800	1509.5	1490.0	1263.5	933.6	600.2	466.5	330.4	227.2	186.2
10 OPzV 1000	1882.9	1858.7	1574.1	1164.3	784.4	582.4	411.9	284.2	232.8
12 OPzV 1200	2257.1	2228.0	1885.1	1393.1	895.7	696.3	493.4	340.2	278.2
12 OPzV 1500	2094.4	2011.5	1857.5	1564.2	988.0	826.5	569.3	367.0	317.3
16 OPzV 2000	2784.2	2674.0	2471.4	2080.8	1316.9	1101.7	756.9	488.6	427.2
20 OPzV 2500	3485.8	3347.8	3093.3	2605.1	1646.4	1377.9	947.8	611.4	533.9
22 OPzV 2750	3838.3	3686.4	3406.2	2868.6	1811.3	1516.3	1043.8	672.1	587.3
24 OPzV 3000	4187.3	4021.5	3715.9	3129.4	1975.9	1654.1	1138.7	733.2	640.7
26 OPzV 3250	4536.2	4356.7	4025.6	3390.2	2140.6	1792.0	1233.6	794.2	694.0
OPzV blocks									
12V 1 OPzV 50	120.0	107.9	83.2	57.0	35.9	26.8	18.1	12.4	10.3
12V 2 OPzV 100	240.0	215.9	166.5	114.0	71.8	53.5	36.2	24.8	20.6
12V 3 OPzV 150	345.1	312.7	244.6	169.8	107.5	80.2	54.3	37.3	31.0
6V 4 OPzV 200	454.7	413.4	325.1	227.2	144.4	107.8	73.1	50.2	41.8
6V 5 OPzV 250	558.6	509.5	402.8	283.1	180.3	134.7	91.3	62.8	52.3
6V 6 OPzV 300	650.3	595.7	475.4	337.5	215.9	161.6	109.6	75.4	62.8

Deviation about +/- 1.5 % possible

Discharge data in watt at 20° C

1.60 V / Cell										
Type		10 min	15 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h
OPzV single cells										
4 OPzV 200		570.5	496.2	381.2	222.7	154.0	115.8	77.5	52.4	44.4
5 OPzV 250		710.7	618.1	475.5	276.4	192.3	144.2	96.2	64.7	54.7
6 OPzV 300		848.5	738.0	567.7	330.7	228.6	172.5	114.7	78.0	66.1
5 OPzV 350		891.2	821.5	631.9	419.2	257.5	216.8	154.4	101.6	81.7
6 OPzV 420		1076.6	990.7	762.2	506.0	309.1	260.0	186.1	122.5	98.6
7 OPzV 490		1248.0	1148.4	885.6	586.7	358.5	301.7	215.9	142.2	114.4
6 OPzV 600		1222.2	1192.7	998.6	718.5	446.9	348.1	247.1	170.3	139.5
8 OPzV 800		1637.0	1597.6	1339.2	966.5	600.2	466.5	330.4	227.2	186.2
10 OPzV 1000		2040.5	1991.4	1670.2	1203.2	748.4	582.4	411.9	284.2	232.8
12 OPzV 1200		2444.5	2385.6	2000.5	1439.9	895.7	696.3	493.4	340.2	278.2
12 OPzV 1500		2499.2	2271.3	2039.3	1606.6	1011.9	841.8	575.6	367.0	317.3
16 OPzV 2000		3322.3	3019.3	2712.7	2143.0	1348.8	1122.1	765.3	488.6	427.2
20 OPzV 2500		4160.1	3780.7	3396.2	2678.5	1686.3	1403.4	958.2	611.4	533.9
22 OPzV 2750		4581.9	4164.1	3739.6	2946.3	1855.2	1544.4	1055.3	672.1	587.3
24 OPzV 3000		4998.5	4542.6	4079.5	3214.1	2023.8	1684.8	1151.3	733.2	640.7
26 OPzV 3250		5415.0	4921.2	4419.5	3482.0	2192.5	1825.1	1247.2	794.2	694.0
OPzV blocks										
12V 1 OPzV 50		128.0	114.3	86.1	57.8	36.2	27.0	18.2	12.5	10.4
12V 2 OPzV 100		255.9	228.5	172.2	115.6	72.5	53.9	36.4	25.0	20.8
12V 3 OPzV 150		369.1	332.2	254.6	172.5	108.6	80.9	54.7	37.5	31.2
6V 4 OPzV 200		486.0	439.0	338.7	231.1	145.8	108.7	73.6	50.5	42.1
6V 5 OPzV 250		598.0	541.6	420.5	288.2	182.1	135.9	92.0	63.2	52.6
6V 6 OPzV 300		697.1	634.7	498.1	344.3	218.3	163.0	110.5	75.9	63.2

Deviation about +/- 1.5 % possible

Our contact information

Triathlon System GmbH

Niederlassung München
Röntgenstraße 3
85221 Dachau
Tel: 08131 / 3 32 17-19
Fax: 08131 / 3 32 17-44
info@triathlon-system.de
www.triathlon-system.de



Triathlon System GmbH

Niederlassung Gera
Leibnizstraße 86
07548 Gera
Tel: 0365 / 8 33 28-16
Fax: 0365 / 8 33 28-27
info@triathlon-system.de
www.triathlon-system.de



Triathlon System GmbH

Benno-Strauß-Straße 10
90763 Fürth
Tel: 0911 / 78 09 60-0
Fax: 0911 / 78 09 60-20
info@triathlon-system.de
www.triathlon-system.de

