



## OPzV Solar Power

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!**

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## **S**eries OPzV Solar Power Product Range

### Energy storage for renewable technologies

OPzV batteries with an innovative gel-electrolyte design are valve regulated lead-acid batteries. The powerful tubular plate technology delivers long service life and greater cycle life. These batteries are ideally suited for applications such as solar and windpower stations, traffic systems or telecommunication and mobile phone stations. 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.

## **Q**uality features

- ✓ Valve regulated lead acid battery technology - maintenance-free
- ✓ Leakage-free construction
- ✓ Robust tubular-plate technology
- ✓ Completely recyclable
- ✓ Simple to install and servicing
- ✓ Compliant with DIN 40742, IEC 60896-21/22 and IEC 61427
- ✓ High capacity and cyclic power
- ✓ Low self-discharge <2 % at 20 °C
- ✓ Operating temperature -20 °C to +55 °C
- ✓ Servicelife 12 plus years

# OPzV Solar Power

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## Construction

### Positive Plates

High energy density tubular design with lead calcium alloy ensures low self-discharge rates and low float currents.

### Negative Plates

Industry leading negative plate design.

### Separators

High-porosity and corrosion-resistant ensures maximum capacity for the lifetime of the cell.

### Gauntlet

Non-woven, high-capacity polyester gauntlet.

### Terminal

Maintains an airtight seal even when the plates expand and grow throughout the lifetime of the cell.

### The Electrolyte

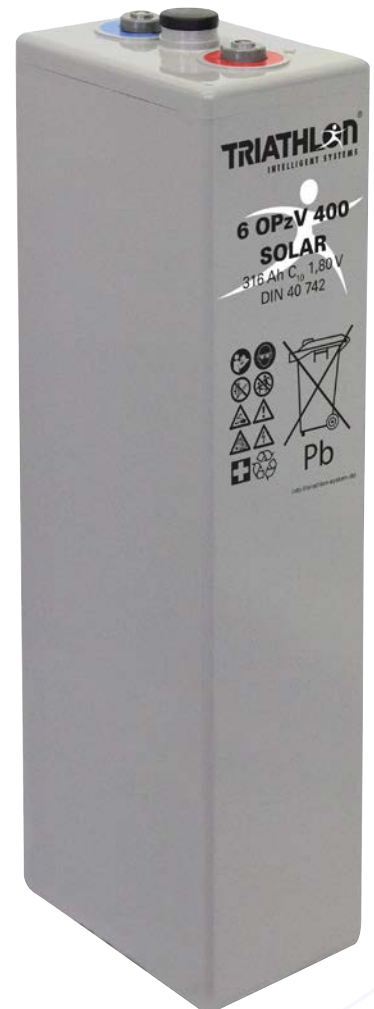
Silicia-based electrolyte that is maintenance free.

### Pressure Release Valve

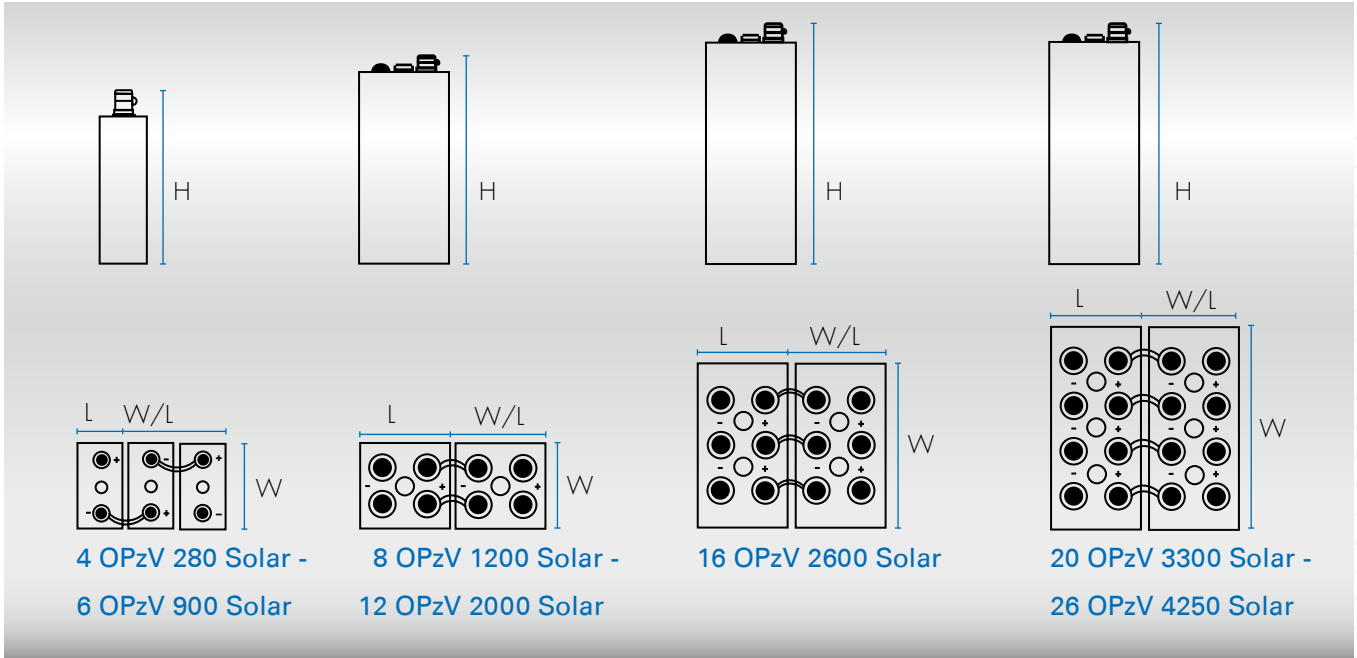
Opens high pressure to release hydrogen gas created during operation.

### Container and Lid

Manufactured from acrylonitrile-butadiene-styrene (ABS) which is durable and heat resistant.

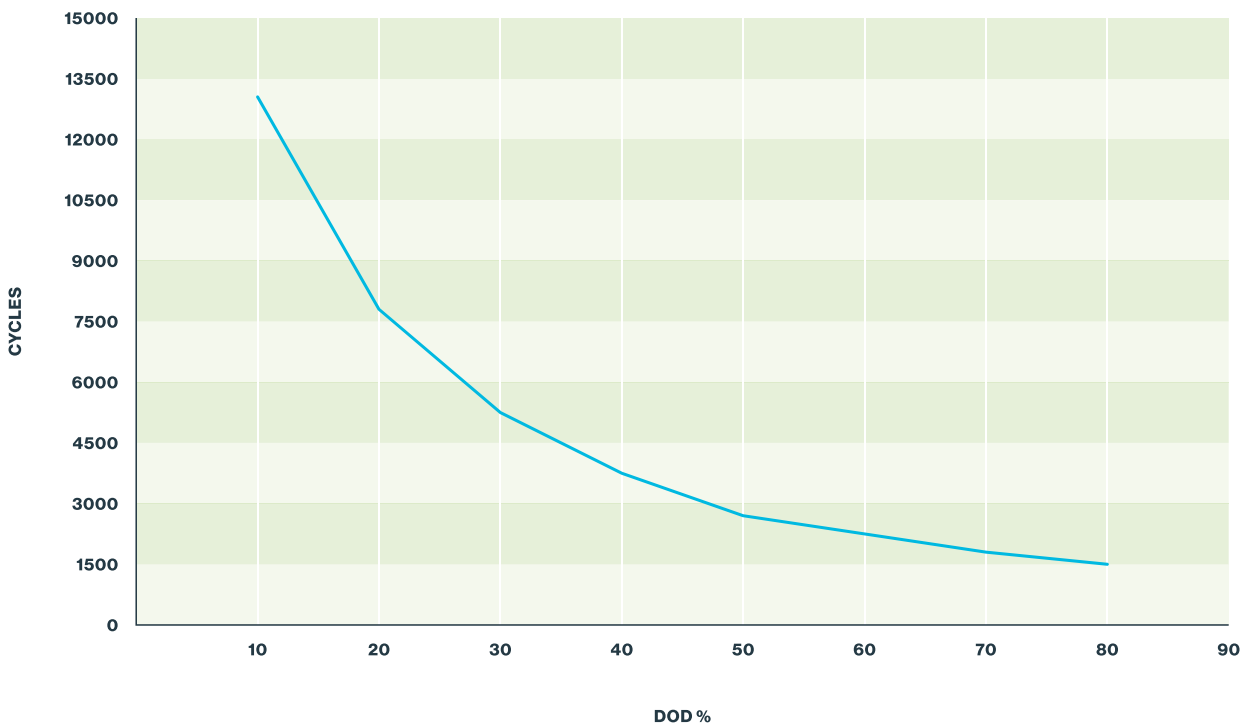


# D<sub>rawings</sub>



pole connector M10; torque 23 Nm +/- 1

# C<sub>ycles vs DOD of OPzV Solar Power</sub>



# OPzV Solar Power

## *T*echnical Characteristics

Cell type to DIN	Length (L)	Width (W)	Height* (H)	Installed Length (W/L)	Weight	Internal resistance	max. discharge current	Capacity Ah
40742	max. mm	max. mm	max. mm	mm	kg	mOhm	A	C120 - 1.85 V Cell at 20 °C
OPzV Solar Power								
4 OPzV 280 Solar	105	208	392	115	18.4	0.95	1650	274
5 OPzV 350 Solar	126	208	392	136	22.2	0.78	2100	345
6 OPzV 400 Solar	147	208	392	157	26.2	0.63	2550	405
5 OPzV 500 Solar	126	208	509	136	30.7	0.63	2800	500
6 OPzV 600 Solar	147	208	509	157	36.2	0.54	3400	599
7 OPzV 700 Solar	168	208	509	178	41.7	0.46	4050	695
6 OPzV 900 Solar	147	208	684	157	50.0	0.51	4350	890
8 OPzV 1200 Solar	212	193	684	222	66.3	0.39	4550	1178
10 OPzV 1500 Solar	212	235	684	222	81.7	0.33	6050	1484
12 OPzV 1800 Solar	212	277	684	222	97.0	0.28	7600	1783
12 OPzV 2000 Solar	212	277	834	222	111.9	0.25	8500	1940
16 OPzV 2600 Solar	215	400	809	225	155.6	0.21	10500	2595
20 OPzV 3300 Solar	214	489	807	224	190.1	0.16	13000	3274
22 OPzV 3600 Solar	214	578	809	224	216.1	0.13	14600	3601
24 OPzV 3950 Solar	214	578	809	224	226.2	0.11	16000	3928
26 OPzV 4250 Solar	214	578	809	224	236.0	0.11	17300	4255

\* Height incl. pole connector

# C Capacities C10 - C240

Cell type to DIN 40742	C10 1.80 20 °C	C24 1.80 20 °C	C48 1.80 20 °C	C72 1.80 20 °C	C100 1.85 20 °C	C120 1.85 20 °C	C240 1.85 20 °C
<b>OPzV Solar Power</b>							
4 OPzV 280 Solar	214	244	269	269	266	274	282
5 OPzV 350 Solar	270	307	339	340	336	345	355
6 OPzV 400 Solar	316	361	398	399	394	405	417
5 OPzV 500 Solar	391	448	485	485	487	500	515
6 OPzV 600 Solar	468	538	581	581	583	599	617
7 OPzV 700 Solar	543	624	674	674	676	695	716
6 OPzV 900 Solar	696	745	799	871	866	890	917
8 OPzV 1200 Solar	921	987	1058	1153	1147	1178	1213
10 OPzV 1500 Solar	1159	1242	1332	1452	1444	1484	1529
12 OPzV 1800 Solar	1393	1492	1601	1746	1735	1783	1836
12 OPzV 2000 Solar	1516	1716	1848	1961	1904	1940	1998
16 OPzV 2600 Solar	2027	2280	2476	2581	2529	2595	2673
20 OPzV 3300 Solar	2558	2877	3124	3257	3192	3274	3372
22 OPzV 3600 Solar	2813	3164	3436	3582	3511	3601	3709
24 OPzV 3950 Solar	3069	3452	3748	3908	3830	3928	4046
26 OPzV 4250 Solar	3325	3740	4061	4234	4149	4255	4383



# Our contact information

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