# OPzV Batteries for Stationary Applications





.



## **OPzV OVERVIEW**

## Valve Regulated Tubular Plate GEL Batteries for Stationary Applications

SUNLIGHT's OPzV batteries are characterized by **maintenance-free**, **long service life**, **excellent reliable performance** even in harsh conditions (high operating temperature or unstable power network) and **durability under cyclic use**, thus providing a premium **efficient and cost effective energy solution**.

Optimum design, according to DIN international standards, exclusive use of high quality raw materials, robust construction and state of the art manufacturing processes make this OPzV range an **ideal solution for high demanding stationary applications**.



## **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

## **QUALITY FEATURES & PRODUCT BENEFITS**

#### Long service life

Tubular positive plates, GEL form electrolyte and a unique sliding pole design, offer a design life of up to 18 years for 2V cells or 15 years for 6V & 12V blocks as well as more than 1500 cycles at 80% Depth of Discharge.

#### Outstanding performance and reliability

Products of optimum design with use of high quality raw materials, European state-of-the-art production facilities and cumulative experience on advanced submarine battery manufacturing ensure remarkable performance, exceeding values as defined by the DIN international standards.

#### **Reduced maintenance cost**

Maintenance-free design without water topping-up needs.

#### **Space optimization**

Vertical and horizontal installation. Racks designed for easy installation, battery maintenance and optimal space utilization.

#### **Operational safety**

Extensive compliance testing performed under European and Global norms and verified by independant 3rd party certification agency.

#### **Complete battery solution**

Complete and ready to install systems with all the necessary accessories. Also flame retardant containers and battery management systems are available upon request.

#### Flexibility

Design and production of customized products and services, high volume orders handling capability, fast delivery.

#### Peace-of-mind

24x7 experienced pre-sales and after sales support, through SUNLIGHT Global Partners Network.

#### **Optimum Total Cost of Ownership (TCO)**

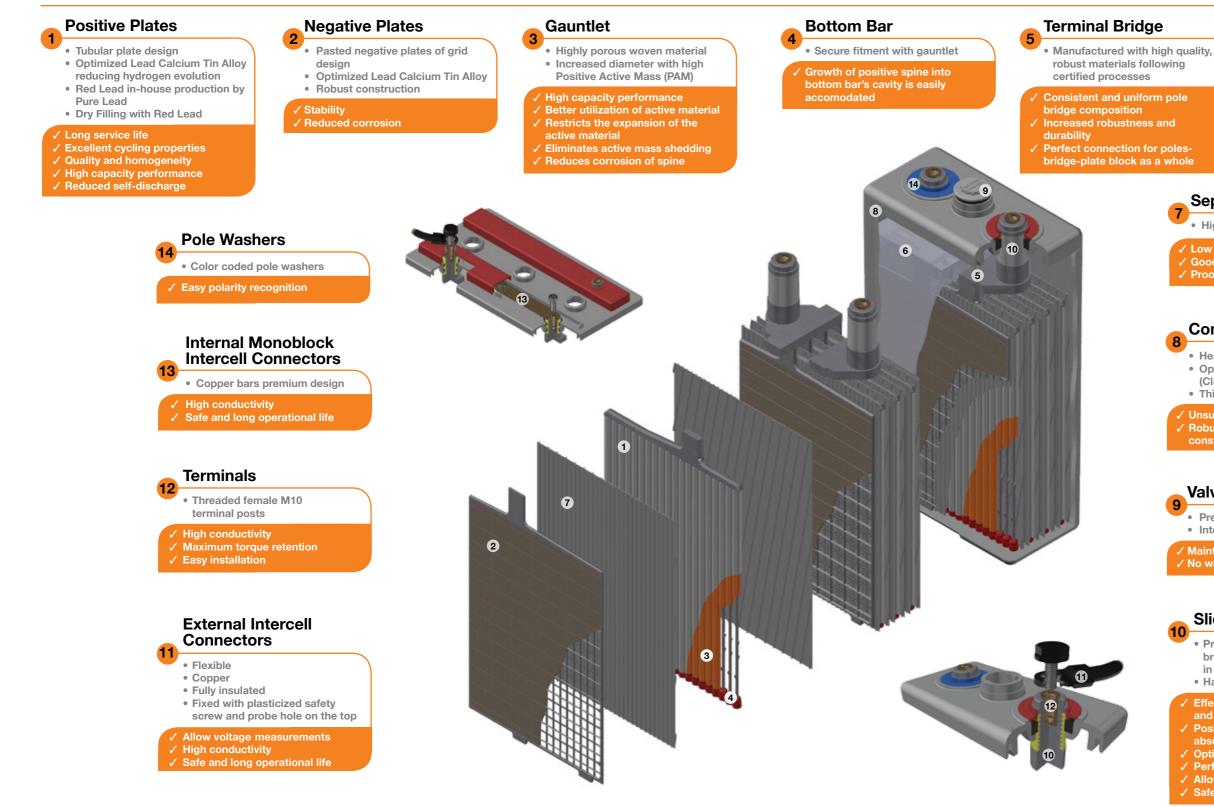
Maximum lifetime value and cost efficiency.

The ideal energy solution for stationary applications

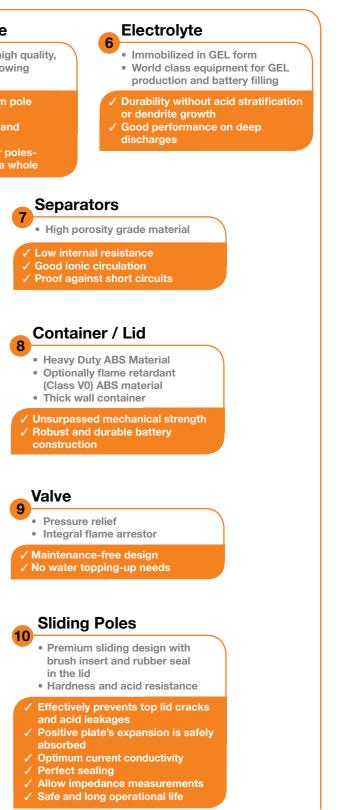




## **TECHNICAL FEATURES & PRODUCT BENEFITS**







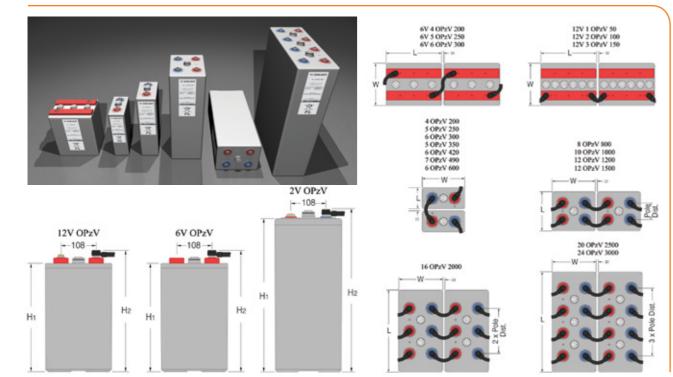


### **PRODUCT RANGE**

I	Туре			itive ites nber	Number of Poles	Nor C10 (Ah) 1.80 Vpc	n <b>. capacit</b> C5 (Ah) 1.75 Vpc	C3 (Ah)	C1 (Ah)	Length (mm)	Width (mm)	Height <sub>1</sub> (mm)	Height <sub>2</sub> (mm)	Pole Dist. (mm)	Weight (approx kg)	Nom. Voltage	Short Circuit Current (A)	Internal Resistance (mOhm)
	2	V 4 OPzV 2001	4	50	2	224	202	179	124	103	206	355	382	-	20	2	2300	0.88
	2	V 5 OPzV 250 <sup>1</sup>	5	50	2	280	253	224	155	124	206	355	382	-	24	2	2860	0.71
	2	V 6 OPzV 300 <sup>1</sup>	6	50	2	336	303	268	185	145	206	355	382	-	28	2	3380	0.60
	2	V 5 OPzV 350 <sup>1</sup>	5	70	2	405	365	320	212	124	206	471	498	-	31	2	3380	0.60
	2	V 6 OPzV 420 <sup>1</sup>	6	70	2	486	438	384	252	145	206	471	498	-	37	2	3980	0.51
	2	V 7 OPzV 490 <sup>1</sup>	7	70	2	567	512	447	292	166	206	471	498	-	42	2	4520	0.45
Cells	2	V 6 OPzV 600 <sup>1</sup>	6	100	2	690	623	539	330	145	206	646	673	-	50	2	4360	0.47
ပဳ	2	V 8 OPzV 800 <sup>1</sup>	8	100	4	920	831	720	445	191	210	646	673	80	68	2	5980	0.34
	2	V 10 OPzV 1000 <sup>1</sup>	10	100	4	1150	1039	899	554	233	210	646	673	110	82	2	7380	0.28
	2	V 12 OPzV 1200 <sup>1</sup>	12	100	4	1380	1247	1076	657	275	210	646	673	140	97	2	8640	0.24
	2	V 12 OPzV 1500 <sup>1</sup>	12	125	4	1620	1470	1275	784	275	210	797	824	140	120	2	9440	0.22
	2	V 16 OPzV 2000 <sup>1</sup>	16	125	6	2160	1960	1701	1049	399	214	772	799	110	165	2	12680	0.16
	2	V 20 OPzV 25001	20	125	8	2700	2452	2130	1322	487	212	772	799	110	200	2	16240	0.13
	2	V 24 OPzV 30001	24	125	8	3240	2940	2544	1552	576	212	772	799	140	240	2	18460	0.11
	6	4 OPzV 200 <sup>2</sup>	4	50	2	206	190	169	117	272	205	332	371	-	48	6	2260	2.70
	6	V 5 OPzV 250 <sup>2</sup>	5	50	2	257	237	211	146	380	205	332	371	-	63	6	2740	2.22
Blocks	6	6 OPzV 300 <sup>2</sup>	6	50	2	309	285	253	173	380	205	332	371	-	70	6	3220	1.89
B	12	V 1 OPzV 50 <sup>2</sup>	1	50	2	51	47	42	30	272	205	332	371	-	43	12	620	19.80
	12	V 2 OPzV 100 <sup>2</sup>	2	50	2	102	94	84	59	272	205	332	371	-	52	12	1240	9.90
	12	V 3 OPzV 150 <sup>2</sup>	3	50	2	153	141	126	88	380	205	332	371	-	72	12	1720	7.08

<sup>1</sup> According to DIN 40 742 <sup>2</sup> According to DIN 40 744 \*includes installed connectors and shrouds.

## DRAWINGS





## ADDED VALUE SERVICES

Design and implementation of turnkey solutions Installation & maintenance services according to EN50272-2 safety requirements (CE compliance) 360° Technical Support 24x7 through SUNLIGHT Global Partners Network Training and consulting Battery Collection and Recycling Services

## WHY SUNLIGHT

#### 30 years of experience in battery

- TOP 3 in the global advanced technology
- TOP 5 in the European industrial battery sector
- 98% of battery production is being exported
- Design and manufacturing thousands of premium solutions complying to demanding requirements

#### Extensive Global Know-how & Experience

- Co-operation with TOP telecom operators and equipment providers worldwide
- A fast growing Global Partners Network



#### "One Stop Solution"

- From single components/products to turn-key solutions
- Robust high quality products & services portfolio
- Lifetime value maximization & total cost of ownership approach

#### **Exceptional Customer Service**

- Highly experienced engineering team for design & development
- Pre-Sales & After-Sales Service providing global support
- Project Management competence

#### SYSTEMS SUNLIGHT S.A.



Member of SUNLIGHT Global Partners Network