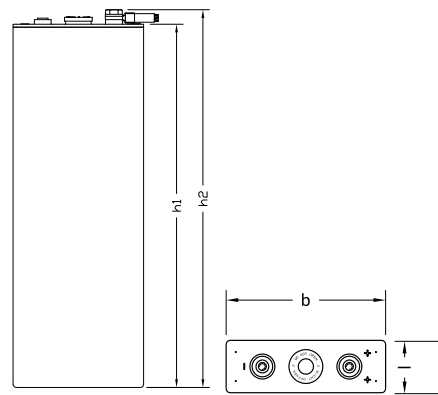


PzV - DIN Product Range

Plate Type: 60 Ah				
Type Designation	Nominal Capacity Ah (C <sub>5</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 198	h1: 343	
			h2: 370	
			l	
2 PzV 120	120	47		8.7
3 PzV 180	180	65		12.3
4 PzV 240	240	83		16.0
5 PzV 300	300	101		19.6
6 PzV 360	360	119		23.2
7 PzV 420	420	137		26.9
8 PzV 480	480	155		30.6

Plate Type: 95 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
			h1: 514	
		b: 198	h2: 541	
		l		
2 PzV 190	190	47		13.2
3 PzV 285	285	65		18.8
4 PzV 380	380	83		24.5
5 PzV 475	475	101		30.2
6 PzV 570	570	119		35.9
7 PzV 665	665	137		41.6
8 PzV 760	760	155		47.3

Plate Type: 140 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 198	h1: 713	
			h2: 740	
			l	
2 PzV 280	280		47	18.3
3 PzV 420	420		65	26.2
4 PzV 560	560		83	34.2
5 PzV 700	700		101	42.0
6 PzV 840	840		119	50.0
7 PzV 980	980		137	58.0
8 PzV 1120	1120		155	65.9



\* Cells' dimensions according to IEC 60254-Part 2  
\*\* For customers' specific request please consult Systems Sunlight Product Dept.

Plate Type: 75 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 198	h1: 408	
			h2: 435	
			l	
2 PzV 150	150		47	10.5
3 PzV 225	225		65	14.9
4 PzV 300	300		83	19.3
5 PzV 375	375		101	23.7
6 PzV 450	450		119	28.2
7 PzV 525	525		137	32.7
8 PzV 600	600		155	37.1

Plate Type: 110 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 198	h1: 568 h2: 595	
		l		
2 PzV 220	220	47		14.6
3 PzV 330	330	65		20.9
4 PzV 440	440	83		27.2
5 PzV 550	550	101		33.5
6 PzV 660	660	119		39.8
7 PzV 770	770	137		46.1
8 PzV 880	880	155		52.5

PzVB - BS Product Range

Plate Type: 52 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 158	h1: 401	
			h2: 428	
			l	
2 PzVB 104	104	45		8.4
3 PzVB 156	156	61		11.5
4 PzVB 208	208	77		14.6
5 PzVB 260	260	93		17.8
6 PzVB 312	312	109		20.9
7 PzVB 364	364	125		24.0
8 PzVB 416	416	141		27.2

Plate Type: 70 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 158	h1: 514 h2: 541	
		l		
2 PzVB 140	140	45		10.9
3 PzVB 210	210	61		14.9
4 PzVB 280	280	77		19.0
5 PzVB 350	350	93		23.1
6 PzVB 420	420	109		27.3
7 PzVB 490	490	125		31.4
8 PzVB 560	560	141		35.6

Plate Type: 60 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 158	h1: 457	
			h2: 484	
			l	
2 PzVB 120	120	45		9.6
3 PzVB 180	180	61		13.2
4 PzVB 240	240	77		16.8
5 PzVB 300	300	93		20.5
6 PzVB 360	360	109		24.1
7 PzVB 420	420	125		27.7
8 PzVB 480	480	141		31.4

Plate Type: 85 Ah				
Type Designation	Nominal Capacity Ah (C <sub>20</sub> )	max cell dimensions mm*		Weight (±5%) in kg
		b: 158	h1: 606	
			h2: 633	
			l	
2 PzVB 170	170	45		12.9
3 PzVB 255	255	61		17.7
4 PzVB 340	340	77		22.6
5 PzVB 425	425	93		27.5
6 PzVB 510	510	109		32.4
7 PzVB 595	595	125		37.3
8 PzVB 680	680	141		42.2

Manufactured in Europe  
Delivered in more than 100 countries



www.systems-sunlight.com

**Headquarters** 2 Ermou & Nikis Street | Syntagma Square | 105 63 | Athens | Greece | EU  
**Manufacturing Plant** Neo Olvio | 672 00 Xanthi | Greece | EU  
**Recycling Plant** Industrial Area of Komotini | 691 00 Komotini | Greece | EU  
**Southeast Europe Industrial Sales** 14B Menexedon Street | 145 64 Kato Kifissia | Greece | EU  
**European Battery Assembly (SEBA)** 175, Via Stra | 37030 Colognola Ai Colli Verona | Italy | EU  
**Industrial SRL** 111-115, Timisoara Boulevard | 061327 Bucharest | Romania | EU

**T** +30 210 6245400  
**T** +30 25410 48100  
**T** +30 25310 82460  
**T** +30 210 6245600  
**T** +39 045 7651771  
**T** +40 021 3517777

**F** +30 210 6245409  
**F** +30 25410 95446  
**F** +30 25310 82489  
**F** +30 210 6245619  
**F** +39 045 7651771  
**F** +40 021 3516667

Motive Power  
**MotionGel** Series

PzV DIN, PzVB BS

MP MG EU 2.19

SYSTEMS SUNLIGHT reserves the right to change or revise without notice any information or detail given in this publication



MAINTENANCE  
FREE



MEDICAL & FOOD  
STORAGE



EMISSION FREE



# Motive Power

As a member of a strong and developing business ecosystem, SUNLIGHT relies on its modern infrastructure, continuous innovation and its passion for excellence, to develop and supply reliable battery solutions.

Our manufacturing plant, located in Xanthi, Northern Greece, is a core element of our dynamic growth. We have systematically invested in the development of **one of the most modern industrial units**, in accordance with the strictest international standards. It covers **200.000m²**, with indoors areas of more than 60.000m².

The company has consistently invested in developing one of **the most advanced industrial plants in the world**, running highly specialized production and assembly lines. The plant is fully compliant with the strictest international standards and is certified for Quality, Occupational Health & Safety and Environmental management systems.

The products are developed by SUNLIGHT R&D team which constantly designs and evaluates new innovative solutions to better meet market needs based on the latest technological trends, industry developments and market feedback.

SUNLIGHT products and services have gained international recognition by ensuring uninterrupted and reliable operations in a wide range of critical applications for a broad spectrum of industries, such as Telecom and Power networks.

**Sunlight MotionGel Series**, maintenance-free PzV cell, is a tubular plate, valve-regulated gas recombination GEL cell series produced in our state of the art production facility in Greece, EU.

**PzV type cells** are suitable for use in storage areas of food, pharmaceutical and chemical products and meet the requirements of low to normal duty operation profiles.

**PzV cell range** complies to the DIN EN 60254-2 standard offering full compatibility and flexibility to customers.

## The complete Motive Power portfolio consists of:

### Sunlight PzS, PzB Series

The proven vented solution with excellent reliability and long service life, utilizing premium quality materials

### HydroSave Series

The low- maintenance solution with up to 13 weeks intervals between watering utilizing optimised alloys and increased head space

### MotionGel Series

The maintenance free sealed-type battery with GEL electrolyte ensuring no acid leakage and minimum gas emissions

### Xtreme Force Series

Based on CSM (Copper Stretch Metal) technology, is suitable for operation under extreme conditions while allowing fast and opportunity charging

### Li.ON FORCE Batteries

A complete range for motive applications with high safety standards. Designed with quality & reliability based on Innovation.

### Sunlight BCI Series

The BCI sized cells, combining compatibility with US battery dimensions with all the benefits of Tubular technology

### Full list of accessories

A full list of accessories ranging from small connectors up to large battery chargers and battery monitoring systems

## Cell

### Designed & Manufactured for Ultimate Performance & Longevity



### The Foundations of the SUNLIGHT cell

Technology Choices based on Submarine Batteries | Solid Design for Long Life in Tough Conditions

Manufactured on the Best-in-Class Equipment | Uncompromised use of Raw Materials | Fully Controlled Production Process

## Applications

- PzV batteries can be used in forklift trucks, cleaning machines and other electric vehicles which are operated in areas where sensitive products are stored under strict regulations that do not allow the presence of any liquid electrolyte.
- Storage areas with limited charging space or without specially equipped charging station.
- In low temperature product storage facilities.



- Where maintenance-free operation is a must, either for practical or financial reasons.
- Recommended for low to normal duty operating conditions. In the case of more demanding operations such as:
  - multi-shift operation,
  - 80% Depth of Discharge,
  - opportunity charging,
  - 8 hours charging periods,the capacity should not exceed 600-650 Ah for 24V, 350 Ah for 48V or 200 Ah for 80V batteries.

## Complete Battery Features

- Minimal maintenance costs. Thanks to the integrated safety recombination valve, no topping up is required throughout the battery's entire operational life.
- Flexibility and compatibility. The cells are fully compatible to IEC 60254 – 2 and they are direct bolt on making repairs an absolute breeze.

- PbCaSn plate alloy. The specially formulated plate alloy minimizes the water consumption of the batteries, extending its expected operational life even further.
- Uniform performance at each and every cycle. The gelled electrolyte completely eliminates acid stratification ensuring consistent performance and high operational life expectancy.

- Minimum initial investment costs. No need for special charging areas, as the gassing of the batteries during recharge is negligible.
- Available in any voltage configuration and in any container type or form required. As a general guideline the following battery configurations are recommended for commercial uses.  
**For 24V batteries maximum capacity of 600-650 Ah**  
**For 48V batteries maximum capacity 350 Ah**  
**For 80V batteries maximum capacity of 200 Ah**  
If there is a need for a different configuration please consult with our representatives.

- Increased user safety. The electrolyte is encapsulated in the cells so the contact of the user with it, is practically impossible.

## Available Accessories

### Chargers

#### Sunlight chargers

An innovative wide range of battery chargers offering safe, reliable and fast recharging to your motive batteries combined with excellent energy efficiency and serviceability.



### Battery Monitoring System

#### Sunlight eGO3 Series

A highly advanced data collection system permanently fixed on your battery. This information can be stored remotely and can be used to help the user understand and improve the usage of his battery.

