Motive Power MotionGel Series

PzV DIN, PzVB BS



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MotionGel Series

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.

At the core of the company's growth lies its state-of-the-art manufacturing plant in Northern Greece, covering an area of 142.000 m². The company has consistently invested in developing one of the most advanced industrial plants in Europe, 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's 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's 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, including Material Handling and Logistics.

The complete Motive Power portfolio consists of:

Motive Power Cells & Batteries HydroSave Series MotionGel Series Full list of accessories*

*Including Chargers and Battery Monitoring Systems

Sunlight MotionGel Series, maintenance-free PzV cell, is a tubular plate, valve-regulated gas recombination GEL cell series created to enhance the solution portfolio offered to our customers in the Material Handling industry.

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.





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



MotionGel

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.	• PbCaSn plate alloy. The specially formulated plate alloy minimizes the water consumption of the batteries, extending its expected opera- tional life even further.	• Minimum initial investment costs. No need for special charging areas, as the gas- sing of the batteries during recharge is negligible.	• Increased user safety. The electrolyte is encapsulated in the cells so the contact of the user with it, is practically impossible.
• Flexibility and compatibility. The cells are fully com- patible to IEC 60254 – 2 and they are direct bolt on making repairs an absolute breeze.	• Uniform performance at each and every cycle. The gelled electrolyte completely eliminates acid stratification ensuring consistent perfor- mance and high operational life expectancy.	 Available in any voltage configure or form required. As a general g configurations are recommended For 24V batteries maximum cate For 48V batteries maximum cate For 80V batteries maximum cate 	uideline the following battery d for commercial uses. apacity of 600-650 Ah apacity 350 Ah apacity of 200 Ah

Available Accessories

Chargers



An innovative range of High Frequency chargers which offers safe and fast recharge to your PzV / PzVB batteries by utilizing du/dt control while on the same time offering excellent energy utilization.

Battery Monitoring System



Sunlight eGO! Series

with our representatives.

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.

If there is a need for a different configuration please consult



PzV - DIN Product Range

Plate Type: 55 Ah							
			c cell ons mm*				
Type	Nominal Capacity	b: 198	h1: 343	Weight			
Designation	Aĥ (C₅)		h2: 370	in kg			
		I					
2 PzV 110	110	4	17	9.0			
3 PzV 165	165	6	85	12.7			
4 PzV 220	220	83		16.5			
5 PzV 275	275	101		20.2			
6 PzV 330	330	11	9	23.9			

Plate Type: 70 Ah						
			c cell ons mm*	Weight		
Type	Nominal Capacity	h. 100	h1: 408			
Designation	Aĥ (C₅)	b: 198	h2: 435	in kg		
		I				
2 PzV 140	140	2	17	10.9		
3 PzV 210	210	6	65	15.4		
4 PzV 280	280	8	33	19.9		
5 PzV 350	350	101		24.4		
6 PzV 420	420	119		28.9		

Plate Type: 85 Ah							
	max cell dimensions mm*						
Type Designation	Nominal Capacity Ah (C ₅)	b: 198	h1: 478	Weight in kg			
Designation			h2: 505	in kg			
			I				
2 PzV 170	170	4	17	12.7			
3 PzV 255	255	6	65	17.9			
4 PzV 340	340	83		23.2			
5 PzV 425	425	101		28.3			
6 PzV 510	510	11	19	33.6			

Plate Type: 110 Ah							
			c cell ons mm*				
Type Designation	Nominal Capacity	h. 100	h1: 568	Weight in kg			
Designation	Aĥ (C₅)	b: 198	h2: 595	iii kg			
		I					
2 PzV 220	220	4	17	15.4			
3 PzV 330	330	6	65	22.0			
4 PzV 440	440	83		28.7			
5 PzV 550	550	101		35.3			
6 PzV 660	660	11	9	42.1			

Plate Type: 120 Ah						
Type Designation	Nominal Capacity	h. 400	h1: 688	Weight		
Designation	Ah (C₅)	b: 198	h2: 715	in kg		
		l				
2 PzV 240	240	2	17	18.7		
3 PzV 360	360	6	65	26.5		
4 PzV 480	480	83		34.4		
5 PzV 600	600	101		42.2		
6 PzV 720	720	11	19	50.1		

Plate Type: 130 Ah							
	max cell dimensions mm*						
Туре	Nominal Capacity Ah (C₅)	b: 198	h1: 713	Weight in kg			
Designation			h2: 740	іп кд			
			I				
2 PzV 260	260		47	19.2			
3 PzV 390	390	65		27.3			
4 PzV 520	520	83		35.5			
5 PzV 650	650	101		43.5			
6 PzV 780	780	1	19	51.7			

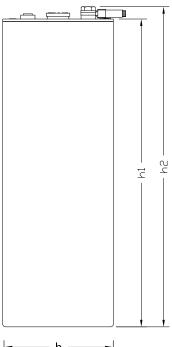
PzVB - BS Product Range

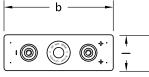
Plate Type: 52 Ah							
	max cell dimensions mm*						
Nominal Capacity	h. 450	h1: 401	Weight in kg				
Ah (C₅)	D: 158	h2: 428					
	I						
104	4	15	8.4				
156	6	61	11.5				
208	77		14.6				
260	93		17.8				
312	10)9	20.9				
	Nominal Capacity Ah (C ₉) 104 156 208 260	Image: Nominal Capacity Ah (C_s) Image: Mail of the second s	max-line mm* h:10 h:401 h:20 h:20 h:20 h:20 104				

Plate Type: 70 Ah							
nation Nominal Capacity Ah (C₅)	b: 158	h1: 514	Weight in kg				
		h2: 541	iii ky				
		I					
140	4	15	10.9				
210	6	61	14.9				
280	7	77	19.0				
350	93		23.1				
420	10)9	27.3				
	Nominal Capacity Ah (C ₉) 140 210 280 350	Image: Nominal Capacity Ah (C ₂) Image: bit state	max el dimensions mm* timensions mm* h1: 514 h2: 541 h2: 541 140 45 210 61 280 77 350 93				

Plate Type: 60 Ah							
		max cell dimensions mm*					
Type Designation	Nominal Capacity	b: 158	h1: 457	Weight in kg			
Designation	Ah (C₅)		h2: 484	шкд			
			I				
2 PzVB 120	120	4	45	9.6			
3 PzVB 180	180	6	61	13.2			
4 PzVB 240	240	7	77	16.8			
5 PzVB 300	300	93		20.5			
6 PzVB 360	360	10)9	24.1			

Plate Type: 85 Ah							
	max cell dimensions mm*						
Type Designation	Nominal Capacity Ah (C₅)	b: 158	h1: 606	Weight in kg			
Designation			h2: 633	iii ky			
		I					
2 PzVB 170	170	4	15	12.9			
3 PzVB 255	255	6	61	17.7			
4 PzVB 340	340	7	7	22.6			
5 PzVB 425	425	93		27.5			
6 PzVB 510	510	109		32.4			





* Cells' dimensions according

to IEC 60254-Part 2

 For customers' specific request please consult Systems Sunlight Product Dept.

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SUNLIGHT Reliable Battery Solutions