Motive Power HYDROSAVE Series



systems-sunlight.com







HydroSave 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, Electrolyte Level Indicators and Battery Monitoring Systems

Sunlight HydroSave Series, is a Low Maintenance series created to enhance the solution portfolio offered to our customers in the Material Handling industry.

HydroSave Cells are designed to extend the intervals between the required top ups with water.

The HydroSave range complies with the DIN EN 60254-2 standard.





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

- HydroSave batteries can be used in all kinds of forklift trucks, cleaning machines and other electric vehicles.
- Big warehouses where the maintenance cost of watering the batteries is a significant part of their overall operating costs.
- Experience in battery service has shown that if users would focus on proper watering, normal battery life would greatly increase and a significant part of battery repair costs would not be required.
- Recommended for every kind of operation (see below)



Complete Battery Features

- Low Antimony plate alloy. The specially formulated plate alloy, combined with the increased cell head space, minimizes the water consumption of the batteries, while on the same time extending the watering intervals.
- Minimal maintenance costs. Thanks to the longer watering intervals, the maintenance costs of the battery are significantly lower.
- Reduced expected repair costs. The low water consumption minimizes damages caused by low water conditions.
- Bolted connections making repair and maintenance a breeze.

• Available in 3 different versions according to the required watering intervals

	Hydrosave 4	Hydrosave 8	Hydrosave 13
Watering interval	4 weeks	8 weeks	13 weeks
Charger	50 Hz	HF	HF + Air Lift
Charging Factor	1.20	1.11	1.07
Electrolyte level Indicator	YES	YES	YES
Aqua Filling	optional	optional	optional
Air Lift	N/A	N/A	YES

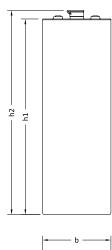




HydroSave Product Range

Plate Type: 125 Ah							
	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***					
Type Designation		b: 198	h1: 568	Weight in ka**			
Designation			h2: 595	ın kg			
		ı					
2 PzS 250 LM****	250	47		15.0			
3 PzS 375 LM	375	65		21.2			
4 PzS 500 LM	500	83		27.4			
5 PzS 625 LM	625	101		33.9			
6 PzS 750 LM	750	119		40.3			
7 PzS 875 LM 875 137		37	46.5				
8 PzS 1000 LM	1000	000 155		53.1			
9 PzS 1125 LM	PzS 1125 LM 1125 174		'4	59.4			
10 PzS 1250 LM	1250	192		66.0			

Plate Type: 155 Ah							
	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***					
Type		b: 198	h1: 713	Weight			
Designation			h2: 740	in kg**			
		ı					
2 PzS 310 LM	310	47		18.9			
3 PzS 465 LM	465	65		26.7			
4 PzS 620 LM	620	83		34.6			
5 PzS 775 LM	775	101		42.6			
6 PzS 930 LM	930	119		50.5			
7 PzS 1085 LM	1085	137		58.5			
8 PzS 1240 LM	1240	155		66.4			
9 PzS 1395 LM	1395	174		74.4			
10 PzS 1550 LM	1550	192		82.4			



Available Accessories

Chargers

Sunlight FILON Charger Series

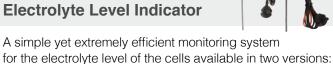
Two innovative ranges of battery chargers (50Hz and HF), offering safe and fast recharging to your motive batteries.



Automatic Filling System

<u>சொல் சூர சூர ச</u>ும் De to De to De to De

A centralized piping system permanently fixed on the battery which quickly distributes the necessary water quantity to all the battery cells ensuring optimum electrolyte level and density.



Battery Monitoring System

Sunlight eGO! Series

Blinky & Smart Blinky.

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.

Airlift System

<u>தி பல் சைபல் மை</u>ச் ப*ச* A centralized piping system permanently fixed on the battery cells, delivers to them low pressure air (requires an airlift configured charger). This air is mixing the electrolyte solution with many and significant benefits for the battery life and its related costs:

- Lower recharge times
- Lower water consumption because of the significantly less energy required for the recharge (recharge factor as low as 1,07) causing up to a 60% water consumption
- Lower battery temperatures during recharge
- An overall decrease in energy costs because of the less energy used.

According to IEC 60254- Part 1 ** Filled and charged cell weights ± 5% *** Cells' dimensions according to IEC 60254-Part 2



SYSTEMS SUNLIGHT S.A.

Headquarters

2 Ermou & Nikis Street, Syntagma Square 105 63 Athens, Attica, Greece T +30 210 6245400 F +30 210 6245409

European Manufacturing Plant

Neo Olvio 672 00 Xanthi, Greece T +30 25410 48100 F +30 25410 95446

Global Service Department

366 Tatoiou Street 136 73 Acharnes, Attica, Greece T +30 210 6245600 F +30 210 6245619

