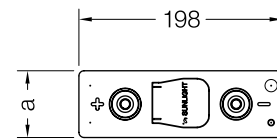
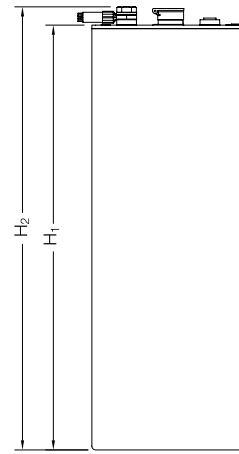


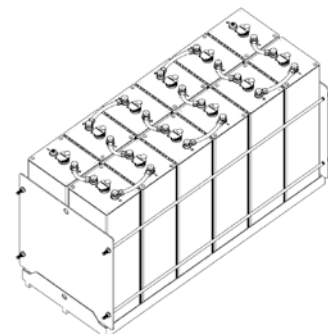
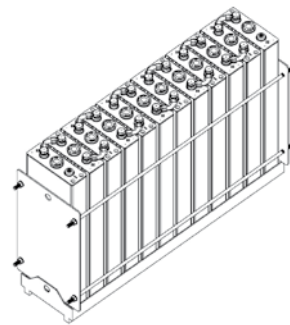
Product Range

2V Cell Type	Capacity (Ah at 20°C)				Dimensions				Weight		Internal Resistance (mOhm)	Short Circuit Current (A)
	C120 Uf=1.85V	C48 Uf=1.80V	C24 Uf=1.80V	C12 Uf=1.75V	Length (mm)	Width (mm)	Height ₁ (mm)	Height ₂ (mm)	Dry (kg)	Wet (kg)		
RES 2 SOPzS 215	215	199	177	156	198	65	408	432	7.4	11.5	1.75	1160
RES 3 SOPzS 310	310	288	257	227	198	83	408	432	10.0	15.4	1.19	1700
RES 3 SOPzS 390	392	365	326	289	198	83	478	502	12.1	18.4	1.02	1980
RES 4 SOPzS 500	503	470	420	375	198	101	478	502	15.4	23.3	0.78	2590
RES 5 SOPzS 605	605	567	508	455	198	119	478	502	18.7	28.0	0.64	3170
RES 4 SOPzS 720	721	688	620	558	198	101	613	637	21.0	30.5	0.63	3190
RES 5 SOPzS 860	860	823	744	673	198	119	613	637	25.6	36.9	0.52	3890
RES 6 SOPzS 965	969	933	846	771	198	137	613	637	30.2	43.4	0.44	4560
RES 7 SOPzS 1270	1271	1206	1084	976	198	174	613	637	35.0	51.6	0.39	5190
RES 8 SOPzS 1382	1382	1318	1188	1075	198	192	613	637	39.6	58.1	0.35	5790

*All dimensions and weights shown are subject to manufacturing tolerances



Non portable metallic trays



- Manufactured at SUNLIGHT's European production facilities, certified with **ISO 9001**, **ISO 14001**, **BS OHSAS 18001**
- Compliant with **IEC 61427** requirements for photovoltaic energy systems and **IEC 60896-11** requirements for vented lead-acid batteries
- Compliant with the safety requirements of **IEC 62485-2**



Manufactured in Europe
delivered in more than **100** countries



Manufacturing Plant in Xanthi, Northern Greece

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

Reserve Power RES SOPzS Batteries

Cyclic Applications



www.systems-sunlight.com

Headquarters

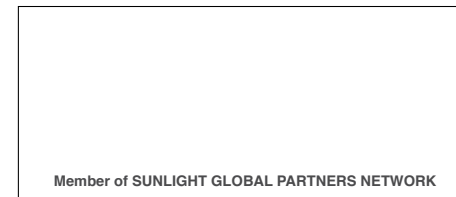
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Reserve Power

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.

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, such as Telecom and Power networks.

The complete Reserve Power portfolio consists of:

OPzS OPzV	RES OPzS RES OPzV	RES SOPzS RES SOPzV	RES SLT RES SLT GEL	SP SERIES ACCUFORCE SVT/ SVT GEL FRONT ACCESS	OGI
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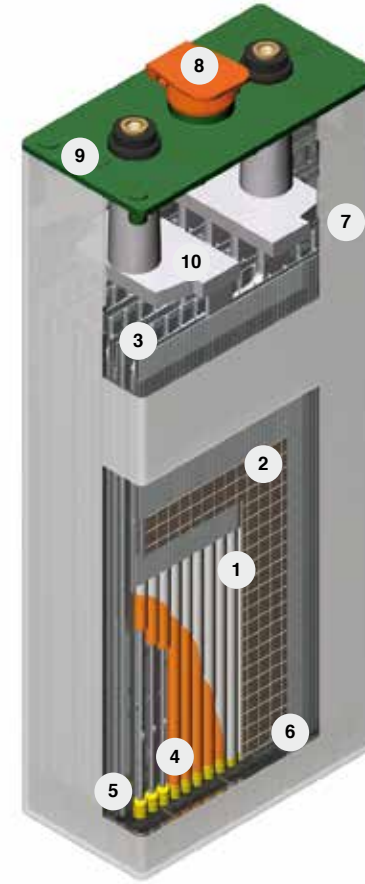
Advanced Low Maintenance Tubular Plate Batteries for Renewable Energy Storage

RES SOPzS is an **advanced cost efficient solution** ideal for energy storage for residential solar installations as well as telecom or other infrastructure systems that demand **long cycle life** and **increased watering intervals**.

Enhanced **tubular plate technology** specially designed for renewable energy applications and SUNLIGHT's solid **experience on industrial batteries** produce an exceptional combination of benefits in a single battery.

Cell

Technical features & product benefits



1 Positive Plates

- ⚙️ Tubular plate design
- ⚙️ Special low antimony lead alloy
- ⚙️ Red Lead in-house production by 99,9% Pure Lead
- ⚙️ Dry Filling process
- ✓ Long cycle life
- ✓ Wide operational temperature range
- ✓ Less water consumption
- ✓ Excellent cycling properties
- ✓ Quality and homogeneity
- ✓ High capacity performance
- ✓ Reduced corrosion
- ✓ Reduced self-discharge rate
- ✓ Increased tolerance even in cases of poor charging conditions

2 Negative Plates

- ⚙️ Paste mixture ensures high adherence and cohesion
- ⚙️ Pasted negative plates of grid design
- ⚙️ Optimized low antimony lead alloy
- ⚙️ Robust construction
- ⚙️ Long life expander
- ✓ Stability
- ✓ Increased cyclic performance
- ✓ Long battery life

3 Separators

- ⚙️ High porosity grade material
- ⚙️ Allow migration of ions during charge/discharge
- ⚙️ More acid in the surrounding area of the plates
- ✓ Secured protection against short circuits
- ✓ High temperature stability
- ✓ Mechanical strength
- ✓ Low internal resistance

4 Gauntlet

- ⚙️ Highly microporous material
- ⚙️ Fine pore structure
- ⚙️ Low electrical resistance
- ✓ Effective active material retention
- ✓ Eliminates active mass shedding

5 Bottom Bar

- ⚙️ Ultrasonic welding
- ✓ Secured fit to the gauntlet
- ✓ Long battery life

6 Electrolyte

- ⚙️ High purity sulphuric acid with nominal density of 1.24 +/- 0,01 kg/l (20°C)
- ✓ Low self discharge rates
- ✓ Excellent performance on deep discharges

7 Container / Lid

- ⚙️ Large volume container
- ⚙️ High impact resistant, translucent Polypropylene for the container
- ⚙️ Lid welding, trimming and tightness control
- ✓ Reduced on site visits for topping up
- ✓ Easy visual electrolyte level monitoring
- ✓ Long term leakage free operation
- ✓ Unsurpassed mechanical strength
- ✓ Robust and durable battery construction

- ⚙️ Technical Features
- ✓ Product Benefits

8 Vent Plug

- ⚙️ Electrolyte basket level marking, specially designed lid, anti-surge baffle
- ✓ Allows optimum cell gassing
- ✓ Electrolyte basket level marking allows visual control of electrolyte level
- ✓ Anti-surge baffle prevents spillage of electrolyte through ventilation openings during operation of the battery

9 Pole Terminal

- ⚙️ Advanced design of pole post and its sealing to the lid. Rubber ring with optimized hardness and acid resistance
- ✓ Operational safety
- ✓ Perfect sealing
- ✓ Low maintenance requirements
- ✓ Better current conductivity
- ✓ Positive plate's expansion is safely absorbed
- ✓ Prevention of top lid cracks and acid leakages

10 Pole Bridge

- ⚙️ Terminal bridge manufactured with Cast On Strap process
- ✓ Consistent and uniform pole bridge composition
- ✓ Increased robustness and durability
- ✓ Perfect connection for poles-bridge-plate block as a whole

Applications

Residential Installations

Off-grid or smart grid connected power systems electrifying houses, hotels, hospitals, schools or factories

Infrastructure PV systems

Remote telecom stations, water pumping, oil & gas distribution, traffic signaling, road lighting, telemetry, security systems



Features & Benefits

The ideal energy solution for Renewable Energy Storage applications

Long cycle life

Tubular positive plates and special low-antimony lead alloy composition provide unique advantages in prolonging cycling operation to a 60% DoD cycle life of 2000 cycles at 20°C.

Performance and reliability

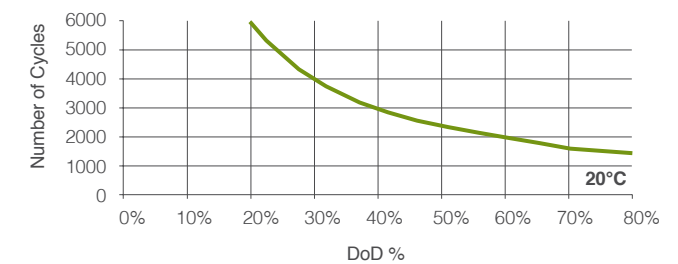
Optimum design, exclusive use of high quality materials, robust construction and state of the art European manufacturing facilities ensure high capacity performance, efficiency and reliability.

Minimum maintenance

Low maintenance design with reduced topping up needs. Transparent container for easy visual electrolyte level monitoring, and cumulative experience on advanced submarine battery manufacturing, ensure reliability in applications demanding high performance.

Easy maintenance

Increased electrolyte volume in large translucent containers and special low antimony alloys ensure rare and easy on site visits for topping up.



Operational safety

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

Complete & flexible energy storage solution

Fast delivery of modular battery systems with all the necessary accessories for safe installation in trays.

Optimum Total Cost of Ownership (TCO)

Significant benefits in terms of cost per cycle and lifetime value maximization.