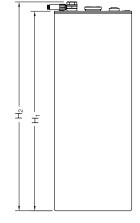


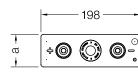
Product Range

RES SOPzV model	Capacity (Ah) at 20°C (68°F)				Dimensions mm (in)				Weight	Internal	Short
	C120 1.85Vpc	C48 1.80Vpc	C24 1.80Vpc	C12 1.80Vpc	Length	Width	Height₁	Height₂	kg (lb)	Resistance (mOhm)	Circuit Current (A)
RES 2 SOPzV 150	150	145	135	123	198 (7.80)	47 (1.85)	343 (13.50)	367 (14.45)	9.0 (19.8)	1.58	1280
RES 3 SOPzV 225	225	218	203	184	198 (7.80)	65 (2.56)	343 (13.50)	367 (14.45)	12.7 (28.0)	1.08	1900
RES 2 SOPzV 280	284	279	260	236	198 (7.80)	47 (1.85)	568 (22.36)	592 (23.31)	15.4 (34.0)	1.08	1900
RES 3 SOPzV 425	426	419	390	354	198 (7.80)	65 (2.56)	568 (22.36)	592 (23.31)	22.0 (48.5)	0.72	2840
RES 4 SOPzV 565	568	558	520	473	198 (7.80)	83 (3.27)	568 (22.36)	592 (23.31)	28.7 (63.3)	0.54	3780
RES 5 SOPzV 710	710	698	650	591	198 (7.80)	101 (3.98)	568 (22.36)	592 (23.31)	35.3 (77.8)	0.43	4740
RES 6 SOPzV 850	852	837	780	709	198 (7.80)	119 (4.69)	568 (22.36)	592 (23.31)	42.1 (92.8)	0.36	5680
RES 7 SOPzV 990	994	977	911	827	198 (7.80)	137 (5.39)	568 (22.36)	592 (23.31)	48.8 (107.6)	0.31	6620
RES 8 SOPzV 1135	1136	1117	1041	945	198 (7.80)	155 (6.10)	568 (22.36)	592 (23.31)	55.5 (122.4)	0.27	7580
RES 7 SOPzV 1190	1190	1171	1087	982	198 (7.80)	137 (5.39)	713 (28.07)	737 (29.02)	60.0 (132.3)	0.31	6560
RES 8 SOPzV 1360	1360	1338	1242	1123	198 (7.80)	155 (6.10)	713 (28.07)	737 (29.02)	68.1 (150.1)	0.27	7500

*All dimensions and weights shown are subject to manufacturing tolerances







Non portable metallic trays







- Manufactured at SUNLIGHT European production facilities, certified with ISO 9001, ISO 14001, **BS OHSAS 18001**
- Compliant with **IEC 61427** requirements for photovoltaic energy systems
- Tested according to **IEC 60896-21** and fully compliant with **IEC 60896-22** requirements
- Compliant with the safety requirements of **IEC 62485-2**

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 I 672 00 Xanthi I Greece I EU

Recycling Plant Industrial Area of Komotini I 691 00 Komotini I Greece I EU

Southeast Europe Industrial Sales 14B Menexedon Street I 145 64 Kato Kifissia I Greece I EU European Battery Assembly (SEBA) 175, Via Stra I 37030 Colognola Ai Colli Verona I Italy I EU Industrial SRL 11, Soseaua Centurii I 077025 Bragadiru, Judet Ilfov I Romania I EU

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Reserve Power **RES SOPzV Batteries**

Cyclic Applications















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.

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.

The complete Reserve Power portfolio consists of:

OPzS OPzV

RES OPZS RES OPzV **RES SOPzS RES SOPzV**

SP SERIES ACCUFORCE RES SLT RES SLT GEL SVT/SVT GEL **FRONT ACCESS**

OGI

Advanced Maintenance-Free Tubular Plate GEL Batteries for Renewable Energy Storage

RES SOPzV is an advanced energy storage solution ideal for autonomous/hybrid PV systems in residential, telecom or infrastructure installations where demand for no water refilling and long cycle life is essential

Enhanced valve regulated technology with electrolyte in GEL form and high performance tubular positive plates are used to produce an exceptional combination of benefits in a single battery





1 Positive Plates

Tubular plate design

Dry Filling process

Long cycle life

evolution

Optimized Lead Calcium Tin Alloy reducing hydrogen

Red Lead in-house production

by 99.99% Primary Lead

Excellent cycling properties

✓ High capacity performance ✓ Reduced corrosion

✓ Reduced self-discharge rate ✓ Increased tolerance even in cases

of poor charging conditions

✓ Wide operational temperature

Pasted negative plates of grid

Paste mixture that ensures high

adherence and cohesion

Optimized corrosion resistant

Increased cyclic performance

High porosity grade material

charge/discharge

area of the plates

short circuits

Allow migration of ions during

More acid in the surrounding

Secured protection against

High temperature stability

3 | SYSTEMS SUNLIGHT S.A.

Mechanical strength

✓ Low internal resistance

Lead Calcium Tin Alloy

Robust construction

Long life expander

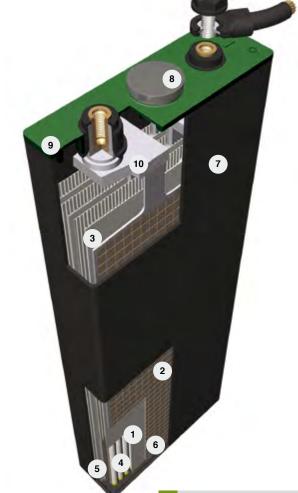
✓ Long battery life

3 Separators

2 Negative Plates

Quality and homogeneity

Technical features & product benefits



6 Electrolyte

Sulphuric acid immobilized in GEL State of the art GEL filling

High purity silica for GEL formation Effective diffusion of GEL

Operation without acid stratification or dendrite growth ✓ High performance on deep

Low self discharge

7 Cell Container

High impact resistant Polypropylene for the container Lid welding, trimming and tightness control ✓ Long term leakage free operation

Unsurpassed mechanical strength ✓ Robust and durable battery

Pressure relief

8 Valve

Technical Features

✓ Product Benefits

Integral flame arrestor No topping-up required 3 Increased safety

Maintenance-free design

9 Pole Terminal

Advanced design of pole post and its sealing to the lid. Rubber ring with optimized hardness and acid

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

and durability

Perfect connection for polesoridge-plate block as a whole

SUNLIGHT





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 GEL electrolyte technology provide unique advantages in prolonging cycling operation to a 60% DoD cycle life of 2000 cycles at 20°C (68°F).

Performance and reliability

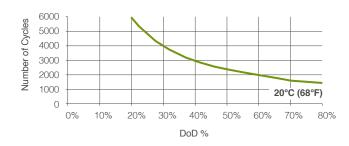
Optimum design, special lead calcium alloys composition, exclusive use of high quality materials and state of the art European manufacturing facilities ensure high capacity performance, efficiency and reliability.

Easy maintenance

Maintenance-free design with internal pressure relief valve ensures no 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.

2 | SYSTEMS SUNLIGHT S.A. Reserve Power I Cyclic application I RES SOPzV

4 Gauntlet

Highly microporous material

Effective active material retention

✓ Eliminates active mass shedding

Growth of positive spine into

bottom bar's cavity is easily

Retains active material on the

Fine pore structure

5 Bottom Bar

Ultrasonic welding

Low electrical resistance

Reserve Power | Cyclic application | RES SOPzV

4 | SYSTEMS SUNLIGHT S.A.

Reserve Power I Cyclic application I RES SOPzV