



Product Information

VARTA OPzS single cells are designed to provide long life and high reliability in all standby applications. The tubular positive plate technology qualifies the Varta OPzS range for long duration discharge and cycling. Main areas of application are telecommunications, power generation, transmission and distribution, emergency lighting and solar systems.

OPzS

**4 OPzS 200 ...
24 OPzS 3000**

Construction

Positive Electrode

Tubular plate with low antimony lead alloy

Negative Electrode

Grid plate, pasted lead grid

Separation

Microporous separator

Casing Material

Styrene-acrylonitrile (SAN), impact resistant, transparent, with electrolyte level indication
-Max- / -Min-

Electrolyte

Dilute sulphuric acid, $d = 1.24 \text{ kg/l}$

Terminal Design

Leak-proof safety pole with solid brass insert and stainless steel bolts M10

Connectors

Solid copper connectors (30 x 3 mm), bolt-on type, insulated, voltage measurement possible

Vent Plugs

Safety plugs with flame arrestor, optional: ceramic funnel plugs

Charging

Float charge voltage: 2.23 V/c

Recommended Range of Operation

0°C to + 55°C (preferred value 20°C)

Product Standards

DIN 40736 Part 1 (OPzS single cells)

DIN 40740 (Ceramic funnel plugs)

Features

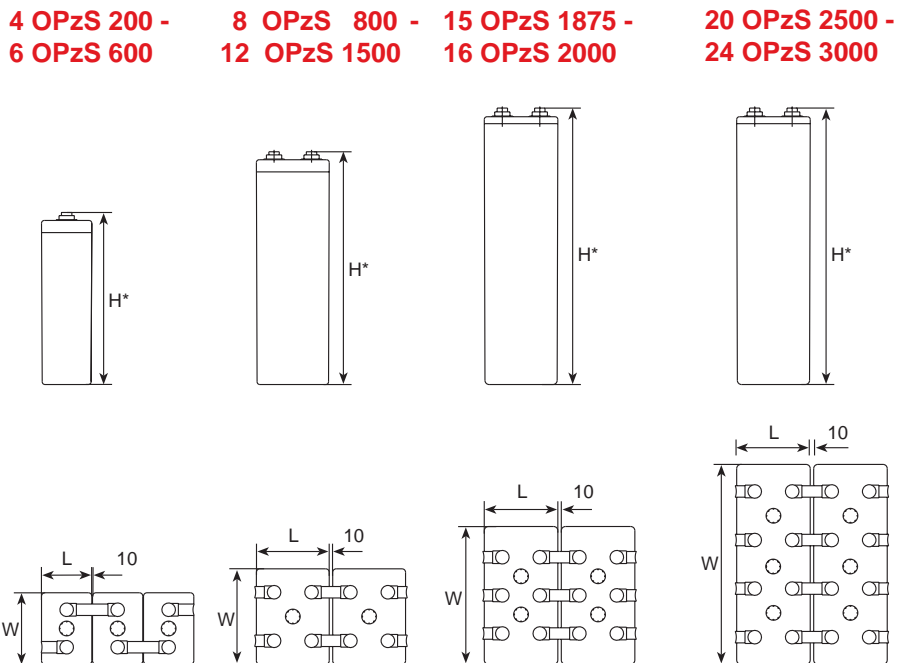
- Single cells, nominal voltage 2 V
- Optimised plate design results in increased capacities exceeding DIN standard values
- Water topping up interval about 3 years in standby operation mode at 20°C
- Long service life in float and cyclic applications



Technical data

Type Designation	Capacity (Ah) acc. to DIN 40736-1	C ₁₀	Capacity at final voltage U _E (V/c)					Internal resistance (incl. connectors, charged) (mOhm/Cell)	Short circuit current (incl. connectors, charged) (A)	Dimensions (mm)			Weight (kg)		Type Designation
			C ₈	C ₅	C ₃	C ₁	L			W	H*	cell	w. acid	acid	
4 OPzS 200	200	216	201	182	159	112	0.97	2060	103	206	405	17.2	4.9	4 OPzS 200	
5 OPzS 250	250	270	252	227	198	141	0.78	2548	124	206	405	20.8	6.0	5 OPzS 250	
6 OPzS 300	300	324	302	273	237	169	0.66	3021	145	206	405	24.3	7.2	6 OPzS 300	
5 OPzS 350	350	390	369	331	287	191	0.72	2759	124	206	520	26.9	7.9	5 OPzS 350	
6 OPzS 420	420	468	444	397	345	229	0.61	3268	145	206	520	31.5	9.4	6 OPzS 420	
7 OPzS 490	490	546	517	464	402	267	0.53	3745	166	206	520	36.1	10.9	7 OPzS 490	
6 OPzS 600	600	660	624	562	496	327	0.49	4016	145	206	695	44.8	12.9	6 OPzS 600	
8 OPzS 800	800	880	832	749	662	437	0.36	5525	210	191	695	61.3	16.9	8 OPzS 800	
10 OPzS 1000	1000	1100	1040	936	827	546	0.29	6849	210	233	695	74.6	21.1	10 OPzS 1000	
12 OPzS 1200	1200	1320	1248	1124	993	655	0.24	8163	210	275	695	88.0	25.2	12 OPzS 1200	
12 OPzS 1500	1500	1680	1600	1436	1243	780	0.23	8621	210	275	845	114.3	34.2	12 OPzS 1500	
15 OPzS 1875	1875	2100	2000	1795	1553	975	0.18	10870	212	397	820	145.0	51.0	15 OPzS 1875	
16 OPzS 2000	2000	2240	2133	1915	1657	1040	0.17	11561	212	397	820	152.0	48.0	16 OPzS 2000	
20 OPzS 2500	2500	2800	2666	2395	2079	1300	0.13	14493	212	487	820	190.0	60.0	20 OPzS 2500	
24 OPzS 3000	3000	3360	3024	2875	2487	1560	0.11	17241	212	576	820	225.0	72.0	24 OPzS 3000	

The electrical values shown in the table relate to loadings from fully charged condition at ambient temperature of +20°C.
* Height includes connectors.



Installation

Suitable for all standard types of installation. For use in earthquake zones special stands are available. When accommodated in battery rooms the safety requirements of EN 50272-2 must be applied.

All dimensions and weights shown are subject to the usual manufacturing tolerances. Electrical values are approximate. The right is reserved to make alterations with a view to technically improved execution without prior notice.

Manufacture under license and distributor in Israel :



Goren Industrial Zone, P.O.B. 1022 - Post Mobile, Western Galilee, 22850, Tel: +972 (4) 9807766, Fax: +972 (4) 9807755