FGS Elettronica - Energie Alternative - Via della Ferriera, 15
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Product information

PowerSafe

Vented tubular cells type OPzS are suitable for all standby applications which require a safe and reliable battery with long life.

The OPzS product is used in standby power system for telecommunications, power generation and distribution, emergency lighting etc. The OPzS range is distinguished by its high tolerance to cycling and long float charge life.

OPzS

Battery design

- Positive Tubular Plate

The positive plate (spines) is made of a lead low antimony alloy. The antimony content is only 1.7%.

- Negative flat plate

The negative plate is a pasted flat plate.

- Separator

The separator between the positive and negative plates is made of microporous material combined with a corrugated sheet.

- Container

The cell containers are made of transparent SAN with clearly marked maximum and minimum electrolyte levels.

- Electrolyte

The electrolyte is dilute sulphuric acid with a specific gravity of 1.240 +/- 0.010 at 20°C in fully charged condition.

- Vent plug

The vent plug is a flame arresting type. On request vent plugs allowing topping up of the cell and taking specific gravity reading, without removing it from the cell are available.

- Terminal

The terminals are made of lead with a copper insert.

- Connector

The connectors are copper screwed intercell connections with protection that allow cell voltage measurements without being removed.

- Charging

The float charge voltage is 2.23 Vpc. For further charging information please refer to our installation, operation and maintenance instructions.

Features

- Low water comsumption with topping up interval of approximately 3 years.
- Float charge at 2.23 Vpc is sufficient to fully recharge the battery after discharge.
- Long service life, when operated on float applications at 2.23 Vpc and 20°C.
- Excellent cycle life for regular charge/ discharge applications.
- The glass clear SAN containers allow excellent visibility of the internal components and electrolyte. Clearly marked maximum and minimum lines ensure easy checking of the electrolyte level.
- Compliance with standards :
  DIN 40736.1 - IEC 896.1

Type	No of terminals	Capacity Ah/10h 1.80 V - 20°C	Dimensions (mm) L	W	Height over vent plug	Weight approx. kg dry	Weight approx. kg filled	Electrolyte Volume inl
4 OPzS 200	2	216	103	206	394	12.4	17.2	3.9
5 OPzS 250	2	270	124	206	394	14.8	20.8	4.9
6 OPzS 300	2	324	145	206	394	17.1	24.3	5.8
5 OPzS 350	2	390	124	206	510	19.0	26.9	6.7
6 OPzS 420	2	468	145	206	510	22.1	31.5	8
7 OPzS 490	2	546	166	206	510	25.2	36.1	9.3
6 OPzS 600	2	660	145	206	685	31.9	44.8	11.1
7 OPzS 700	4	817	210	191	685	40.4	57.6	14.8
8 OPzS 800	4	880	210	191	685	44.4	61.3	14.5
9 OPzS 900	4	1040	210	233	685	49.6	70.9	18.4
10 OPzS 1000	4	1100	210	233	685	53.5	74.6	18.1
11 OPzS 1100	4	1260	210	275	685	58.9	84.4	20.8
12 OPzS 1200	4	1320	210	275	685	62.8	88.0	20.6
11 OPzS 1375	4	1590	210	275	835	74.5	109	27.6
12 OPzS 1500	4	1680	210	275	835	80.2	114	27.3
13 OPzS 1625	6	1910	214	399	811	91.2	140	39.6
14 OPzS 1750	6	2040	214	399	811	95.8	144	39.6
15 OPzS 1875	6	2150	214	399	811	101	149	38.9
16 OPzS 2000	6	2240	214	399	811	105	151	39
17 OPzS 2125	8	2470	212	487	811	119	180	48.5
18 OPzS 2250	8	2600	212	487	811	125	184	47.8
19 OPzS 2375	8	2710	212	487	811	130	189	47.5
20 OPzS 2500	8	2800	212	487	811	134	193	47.6
22 OPzS 2750	8	3150	212	576	811	153	225	57.8
24 OPzS 3000	8	3360	212	576	811	163	234	56.4

All the weights and dimensions are subject to normal production tolerances.

On request, cells with lead-calcium alloy at the positive plate are available (OPzSC)

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