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# OPzS

## Vented Lead-Acid STANDBY POWER BATTERIES

**CATALOGUE**



## ADVANTAGES

- √ 20 years Design Life
- √ 1500+ deep discharge cycles
- √ Extended topping-up intervals
- √ Maximum charging efficiency
- √ Minimal positive growth
- √ Improved safety against accidental contacts

## MAIN APPLICATIONS

- √ Telecommunication
- √ Power plants
- √ Substations
- √ Emergency power
- √ Wind and Solar power generation
- √ Railways
- √ UPS units

## STANDARD REF.

- √ EN 60896-11
- √ EN 50272-2
- √ EN 61427

## SPECIFICATION

- |                         |   |
|-------------------------|---|
| √ Positive plates       | Tubular plate with lead selenium grid alloy (Sb < 2%) and woven gauntlet                            |
| √ Negative plates       | Fully enveloped flat pasted plate with lead selenium grid alloy (Sb < 2%)                           |
| √ Separators            | Microporous plastic separators  |
| √ Container             | High-strength transparent SAN (option: available in Flame Retardant PC UL94 V0 version)             |
| √ Lid                   | Opaque gray ABS (option: available in Flame Retardant UL94 V0 version)                              |
| √ Electrolyte           | Dilute solution of sulfuric acid SG1.240 ±0.01 at 20°C  |
| √ Electrolyte reserve   | Maximum availability over the plates  |
| √ Terminal Posts        | Robust design d.30 mm with M10 threaded insert  |
| √ Posts sealing         | Double sealing on HQ post finishing   |
| √ Vents                 | Flame arrestor ceramic vents fully tested in compliance with UL standard (option: Flip-top version) |
| √ Plates suspension     | Bottom supported with sediment space  |
| √ Inter-cell connectors | Fully insulated copper  |
| √ Terminal hardware     | Fully insulated steel   |
| √ Terminal adaptor      | Solid lead plated copper plates   |

Type	Nominal Voltage V	Actual Capacity		Ri mOhm	Isc kA	Dimensions (mm)			Weight		Electrolyte		No. of Terminals
		Ah/10Hrs	Ah/120Hrs			Length	Width	Overall Height	Wet Kg	Dry Kg	Weight Kg	Volume Litres	
2 OPzS 100	2	108	151	1.55	1.29	103	206	433	16.2	9.7	6.5	5.2	2
3 OPzS 150	2	162	227	1.03	1.94	103	206	433	17.4	12.1	5.3	4.3	2
4 OPzS 200	2	216	303	0.78	2.58	103	206	433	18.6	14.5	4.1	3.3	2
5 OPzS 250	2	270	379	0.62	3.23	124	206	433	22.3	17.1	5.2	4.2	2
6 OPzS 300	2	324	454	0.52	3.87	145	206	433	25.9	19.7	6.2	5.0	2
5 OPzS 350	2	377	588	0.57	3.48	124	206	549	29.3	21.8	7.5	6.0	2
6 OPzS 420	2	452	706	0.48	4.17	145	206	549	34.5	25.5	9.0	7.3	2
7 OPzS 490	2	528	823	0.41	4.87	166	206	549	39.4	29.4	10.0	8.1	2
6 OPzS 600	2	638	973	0.44	4.53	145	210	736	47.6	35.2	12.4	10.0	2
7 OPzS 700	2	745	1135	0.38	5.29	210	191	736	56.1	41.3	14.8	11.9	4
8 OPzS 800	2	851	1297	0.33	6.04	210	191	736	63.9	47.4	16.5	13.3	4
9 OPzS 900	2	958	1459	0.29	6.80	210	233	736	71.2	52.2	19.1	15.4	4
10 OPzS 1000	2	1064	1622	0.26	7.55	210	233	736	79.5	58.5	20.5	16.5	4
11 OPzS 1100	2	1170	1784	0.24	8.31	210	275	736	84.1	61.3	22.8	18.4	4
12 OPzS 1200	2	1277	1946	0.22	9.06	210	275	736	90.3	65.7	24.6	19.8	4
12 OPzS 1500	2	1622	2394	0.27	7.93	210	275	886	113.2	85.6	27.6	22.3	4
13 OPzS 1625	2	1757	2593	0.25	8.59	214	399	862	125.2	95.3	29.9	24.1	6
14 OPzS 1750	2	1892	2793	0.23	9.25	214	399	862	137.3	103.8	33.5	27.0	6
15 OPzS 1875	2	2027	2992	0.22	9.91	214	399	862	147.4	109.6	37.8	30.5	6
16 OPzS 2000	2	2162	3192	0.20	10.57	214	399	862	156.6	117.0	39.6	31.9	6
20 OPzS 2500	2	2703	3990	0.16	13.21	212	487	862	196.4	146.7	49.7	40.1	8
24 OPzS 3000	2	3244	4788	0.14	15.86	212	576	862	229.7	167.2	62.5	50.4	8

## DISCHARGE CURRENT (A) to 1.80 Vpc SG1.240 at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
2 OPzS 100	104,2	97,4	89,8	82,7	66,8	49,2	33,2	25,6	18,0	12,7	10,8	6,2	5,38	1,50	1,26	0,64
3 OPzS 150	156,3	146,1	134,7	124,0	100,2	73,8	49,8	38,4	26,9	19,1	16,2	9,3	8,07	2,25	1,89	0,97
4 OPzS 200	208,4	194,8	179,6	165,3	133,6	98,4	66,3	51,1	35,9	25,4	21,6	12,5	10,76	3,00	2,52	1,29
5 OPzS 250	260,5	243,5	224,5	206,7	167,0	123,0	82,9	63,9	44,9	31,8	27,0	15,6	13,45	3,74	3,15	1,61
6 OPzS 300	312,6	292,2	269,4	248,0	200,4	147,6	99,5	76,7	53,9	38,1	32,4	18,7	16,14	4,49	3,79	1,93
5 OPzS 350	295,0	276,5	254,0	235,5	196,7	153,3	109,7	86,5	62,2	44,3	37,7	22,2	19,35	5,77	4,90	2,50
6 OPzS 420	354,0	331,8	304,8	282,6	236,0	183,9	131,7	103,7	74,7	53,1	45,2	26,6	23,22	6,92	5,88	3,00
7 OPzS 490	413,0	387,1	355,6	329,7	275,3	214,6	153,6	121,0	87,1	62,0	52,8	31,1	27,09	8,08	6,86	3,50
6 OPzS 600	414,0	396,0	376,8	358,1	313,8	251,8	183,3	145,6	103,9	74,8	63,8	36,6	31,86	9,53	8,11	4,13
7 OPzS 700	483,0	462,0	439,6	417,8	366,1	293,8	213,9	169,9	121,2	87,3	74,5	42,7	37,17	11,12	9,46	4,82
8 OPzS 800	552,0	528,0	502,4	477,5	418,4	335,8	244,4	194,1	138,5	99,8	85,1	48,8	42,47	12,71	10,81	5,51
9 OPzS 900	621,0	594,0	565,2	537,2	470,7	377,7	275,0	218,4	155,8	112,2	95,8	54,9	47,78	14,30	12,16	6,20
10 OPzS 1000	690,0	660,0	628,0	596,9	523,0	419,7	305,5	242,7	173,2	124,7	106,4	61,0	53,09	15,89	13,51	6,89
11 OPzS 1100	759,0	726,0	690,8	656,5	575,3	461,7	336,1	266,9	190,5	137,2	117,0	67,1	58,40	17,48	14,86	7,58
12 OPzS 1200	828,0	792,0	753,6	716,2	627,6	503,7	366,6	291,2	207,8	149,6	127,7	73,2	63,71	19,07	16,22	8,27
12 OPzS 1500	958,8	925,2	884,6	847,8	755,6	617,4	456,1	368,6	265,4	189,9	162,2	93,1	80,93	23,52	19,95	10,17
13 OPzS 1625	1038,7	1002,3	958,4	918,4	818,6	668,9	494,2	399,3	287,5	205,8	175,7	100,9	87,67	25,48	21,61	11,02
14 OPzS 1750	1118,6	1079,4	1032,1	989,1	881,6	720,3	532,2	430,0	309,6	221,6	189,2	108,6	94,42	27,44	23,27	11,87
15 OPzS 1875	1198,5	1156,5	1105,8	1059,7	944,5	771,8	570,2	460,8	331,7	237,4	202,7	116,4	101,16	29,40	24,94	12,72
16 OPzS 2000	1278,4	1233,6	1179,5	1130,4	1007,5	823,2	608,2	491,5	353,9	253,2	216,2	124,1	107,91	31,36	26,60	13,57
20 OPzS 2500	1598,0	1542,0	1474,4	1413,0	1259,4	1029,0	760,2	614,3	442,3	316,5	270,3	155,2	134,88	39,19	33,25	16,96
24 OPzS 3000	1917,6	1850,4	1769,3	1695,6	1511,3	1234,8	912,3	737,2	530,8	379,8	324,4	186,2	161,86	47,03	39,90	20,35

All the above data are actual values after the 5th cycle with a general tolerance of ±2%  
8 hours capacity to 1,75 Vpc at 25°C (77°F) = 10 hours Actual Capacity to 1,80 Vpc at 20°C x corrective factor 1,01



#### **MIDAC S.p.A.**

VIA A.VOLTA, 2 - Z.I. - 37038 SOAVE (VERONA) - ITALIA  
TEL. +39 045 61 32 1 32 - FAX +39 045 61 32 1 33  
E-mail: [midac@midacbatteries.com](mailto:midac@midacbatteries.com)

#### **MIDAC DEUTSCHLAND GMBH**

BERSRÖDER STRASSE 23 - 35447  
REISKIRCHEN - DEUTSCHLAND  
TEL. +49 6408 5036390 - FAX +49 6408 50363915  
E-MAIL: [VERTRIEB@MIDACBATTERIES.COM](mailto:VERTRIEB@MIDACBATTERIES.COM)

#### **MIDAC NEDERLAND BV**

KEPLERLAAN 10 - 6716BS EDE - NEDERLAND  
TEL. +31 318 678230 - FAX +31 318 678231  
E-mail: [verkoop@midacbatteries.com](mailto:verkoop@midacbatteries.com)

#### **MIDAC AUSTRALIA**

2/32 BLUETT DRIVE - SMEATON GRANGE, NSW - 2567  
TEL. +61 02 4647 1422 - FAX +61 02 4648 1684  
E-mail: [midac.australia@midacbatteries.com](mailto:midac.australia@midacbatteries.com)

#### **MIDAC FRANCE S.A.R.L.**

Z.I. - ROUTE DE COLMAR BP 9070  
68502 GUEBWILLER CEDEX - FRANCE  
TEL. +33 03 89 622380 - FAX +33 03 89 622375  
E-mail: [contact@midacbatteries.com](mailto:contact@midacbatteries.com)

#### **MIDAC UK LTD**

15 RADFORDS FIELD - MAESBURY ROAD - OSWESTRY  
SHROPSHIRE - SY10 8RA - UK  
TEL. +44 01691 663111 - FAX +44 01691 653066  
E-mail: [inquiries@midacbatteries.com](mailto:inquiries@midacbatteries.com)  
SALES OFFICE IRELAND  
141 LOUGHGALL ROAD - COUNTY ARMAGH  
BT 618EW - IRELAND  
TEL. + 44 02837 511744

#### **QUALITY AND FLEXIBILITY**

MIDAC is very committed in providing the market with a wide range of products, ensuring premium quality and maximum flexibility to satisfy any requirement, also engineering customized solutions.

MIDAC'S management system is certified according to:

ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004, BS OHSAS 18001:2007, SA 8000:2008



#### **MIDAC SPA SPA HEADQUARTER, SOAVE, VERONA, ITALY**

Unica realtà a produrre batterie avviamento, trazione e stazionarie in un singolo stabilimento produttivo, in 25 anni è diventata una delle aziende leader in Europa con prodotti distribuiti in tutto il mondo.

*The only company that produces Automotive, Motive power and Stationary batteries in the same manufacturing plant, in less than 25 years it has become one of the leading companies in Europe and its products are sold worldwide.*

#### **MIDAC PRODUZIONE VERDE**

Midac utilizza l'energia pulita prodotta dal proprio impianto fotovoltaico per la produzione di batterie e accumulatori, evitando l'emissione di 945 tonnellate di CO<sub>2</sub> ogni anno.

#### **MIDAC GREEN PRODUCTION**

*Midac uses clean energy produced by your photovoltaic system for the production of batteries and accumulators, avoiding the emission of 945 tons of CO<sub>2</sub> each year.*

