



OPzV Series

Summary

OPzV series is Valve Regulated Lead Acid battery adopting immobilised GEL and Tubular Plate technology, offering high reliability and stable performance. The OPzV series is designed and manufactured according to DIN standards, with die-casted positive grid and patented active material formula, they exceed the DIN standard values. They offer 20+ years design life in float service at 25 °C and are more suitable for cyclic use under extreme operating conditions.

Suitable for power supply in telecommunication, photovoltaic / wind energy storage and UPS applications.

Product Features

- Capacity range (C₁₀): 45Ah — 3000Ah
- Voltage : 2V/12V
- Floating design life: 20 years at 25°C
- Cycle life(2V): >2000 at 80% DOD and 6000 at 25% DOD
- Self discharge rate ≤ 2%/month;
- High charge acceptance performance;
- Wide operation temperature: -40°C ~ 70°C
- Storage life: After fully charged, it can be stored about 2years at 20°C
- Good deep discharge recovery performance.
- Electrolyte: gel electrolyte uses imported silica, special techniques make it in a gel immobilized state, safer than AGM type battery; special additives make it very stable, lower internal resistance and no stratification;
- Positive plate: tubular type ,with die- casting thick Pb-Ca grid; it has very good corrosion resistance and a very long service life;
- Negative plate: pasted flat type, radial grid design ,good high rate discharge performance;
- Separator: PVC-SiO₂ separator imported from Europe, low internal resistance, high pore rate and long life;
- Flooded electrolyte design: contain more electrolyte like a flooded battery, space between plates and separators is full of electrolyte thus means good heating capacity and avoid "thermal runaway";
- Safety valves: good sensitivity, safe and reliable , equipped with double flame arrester/acid filter;
- Battery case: made of high strength ABS and durable design.

Application

- Telecommunication
- Photovoltaic / Wind Energy
- UPS
- Power Storage Plant
- Military

Compliant Standards

- IEC60896-21/22- 2004
- DIN43539-T5
- IEC61427-2005
- YD/T1360-2005
- GB/T 22473-2008
- Passed ISO9001, ISO14001, OHSAS18001, UL, CE certificate

Main Parameters

Model	Nominal Voltage (V)	Capacity C ₁₀ (Ah)	Weight		Terminal Type	Dimension								Internal Resistance (mΩ@25°C)	Terminal Position
			Lbs	Kg		Length		Width		Height		Total Height			
						mm	inch	mm	inch	mm	inch	mm	inch		
OPzV2-200	2	200	37.04	16.8	F10	103	4.06	206	8.11	355	13.98	390	15.35	1.00	G
OPzV2-250	2	250	45.2	20.5	F10	124	4.88	206	8.11	355	13.98	390	15.35	0.90	G
OPzV2-300	2	300	54.02	24.5	F10	145	5.71	206	8.11	355	13.98	390	15.35	0.85	G
OPzV2-350	2	350	60.64	27.5	F10	124	4.88	206	8.11	470	18.50	505	19.88	0.80	G
OPzV2-420	2	420	72.77	33	F10	145	5.71	206	8.11	470	18.50	505	19.88	0.65	G
OPzV2-490	2	500	84.89	38.5	F10	166	6.54	206	8.11	470	18.50	505	19.88	0.65	G
OPzV2-600	2	600	102.5	46.5	F10	145	5.71	206	8.11	645	25.39	680	26.77	0.60	G
OPzV2-770	2	770	123.5	56	F10	210	8.27	254	10.00	470	18.50	525	20.67	0.55	G
OPzV2-800	2	800	138.9	63	F10	191	7.52	210	8.27	645	25.39	680	26.77	0.50	H
OPzV2-1000	2	1000	169.8	77	F10	233	9.17	210	8.27	645	25.39	680	26.77	0.45	H
OPzV2-1200	2	1200	202.9	92	F10	276	10.87	210	8.27	645	25.39	680	26.77	0.45	H
OPzV2-1500	2	1500	242.6	110	F10	275	10.83	210	8.27	795	31.30	830	32.68	0.40	H
OPzV2-2000	2	2000	330.8	150	F10	399	15.71	214	8.43	770	30.31	805	31.69	0.40	I
OPzV2-2500	2	2500	419.0	190	F10	487	19.17	212	8.35	770	30.31	805	31.69	0.35	J
OPzV2-3000	2	3000	496.1	225	F10	576	22.68	212	8.35	770	30.31	805	31.69	0.35	J
OPzV12-45	12	45	39.69	18.0	F11	260	10.24	169	6.65	211	8.31	218	8.58	17.0	C
OPzV12-60	12	60	50.72	23	F11	260	10.24	169	6.65	211	8.31	218	8.58	13.5	C
OPzV12-80	12	80	66.15	30	F12	328	12.91	172	6.77	215	8.46	220	8.66	10.0	C
OPzV12-100	12	100	79.38	36	F12	407	16.02	177	6.97	225	8.86	225	8.86	8.0	C
OPzV12-120	12	120	101.2	45.9	F12	483	19.02	170	6.69	241	9.49	241	9.49	7.5	C
OPzV12-140	12	140	118	53.5	F12	532	20.94	207	8.15	214	8.43	219	8.62	7.0	C
OPzV12-160	12	160	125.7	57	F12	532	20.94	207	8.15	214	8.43	219	8.62	6.5	C
OPzV12-180	12	180	146.6	66.5	F10	522	20.55	240	9.45	219	8.62	224	8.82	6.0	C
OPzV12-200	12	200	161	73	F14	520	20.47	268	10.55	220	8.66	225	8.86	5.0	C