

OPzV Tubular GEL

for Renewable Energy Applications



OPzV is the first choice for regular deep cycling application, such as renewable energy systems, where long discharges occur, making it ideal for remote installations with the highest level of reliability in the market. **OPzV is a maintenance-free energy storage solution.** It means significant cost effectiveness, and extremely beneficial in terms of cost per cycle. There is **no acid stratification**, therefore, **no equalizing charge is necessary.**

Gel structure eliminates any internal short circuits possible, and ensures complete sealing throughout the battery's life.

OPzV is **made with high quality materials**, is very robust, and designed with **state-of-the-art** manufacturing processes to achieve the optimum design.

Test and certificates:

Our OPzV batteries obtained **IEC 60896-21 2004** and **IEC 60896-22 2004** internationally recognised certificates and passed successfully all the international tests by a third party organisation.

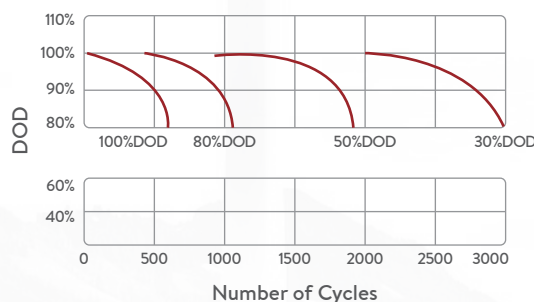
OPzV features:

Long cycle life

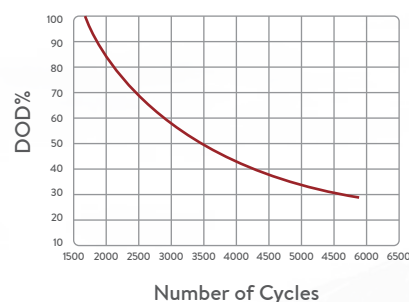
It has a service life of up to **18-20 years**, with continuous float operation down to approx. **80% capacity**. Very **low self-discharge** <50% of rated capacity in 2 years at 20 Degree C ambient temperature. High cyclic ability **over 600 cycles** when discharged at 10 hour rate to an end voltage of 1.8Volt/cell at 20 Degree C. Deep discharge protected, a load can be connected to the battery for **up to 4 weeks**.

Low cost per cycle. Lifetime value is maximized especially at hybrid systems where using batteries can greatly reduce the Genset daily run time, resulting in **fuel savings and less CO2 emission.**

12V Cycle Life



2V Cycle Life



Reliability and performance

Optimum design, and made from **high quality** raw materials. Ready for immediate use without further commissioning work. **Low gassing** thanks to antimony-free alloy and internal oxygen recombination.

Maintenance-free

Maintenance-free design without water topping-up needs. Completely sealed throughout the battery's life. **No internal short circuits** possible due to the gel structure. **No acid stratification**, so **no equalizing charge necessary.**

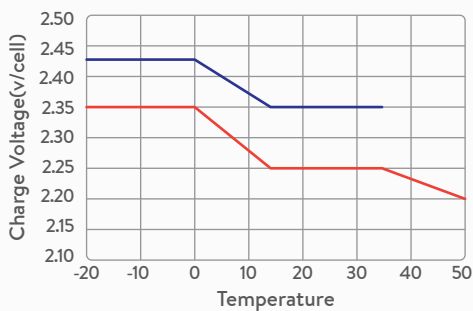
Space optimization

Minimum space required, and room requirements are minimal e.g. **no washing facilities needed**, ventilation requirements are minimal. **easy to move and handle**. **Easy install** using cable connectors with insulated terminal covers.

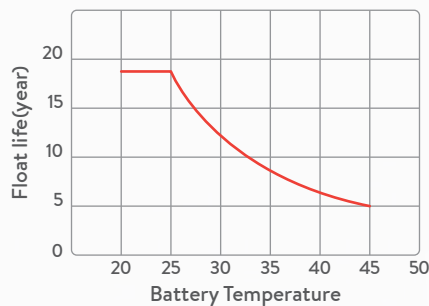
Vertical and horizontal installation. Racks designed for optimal space utilization, quick installation and easy battery maintenance.

Can be supplied as a standard vertical installation, or by special request, for a horizontal installation.

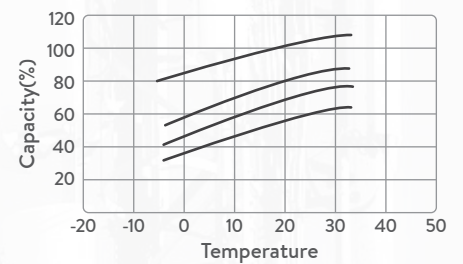
Charge Voltage vs ambient temperature curve



Float Life



Temperature Effect in relation to Battery Capacity



APPLICATIONS:



Telecommunications
, and radio and
cellular telephone
relay stations



Emergency lighting
systems



Conventional power
stations, and renewable
energy



Large UPS and computer
back-up



Railway signalling



Maritime standby power
on ships and ashore



Process and control
engineering



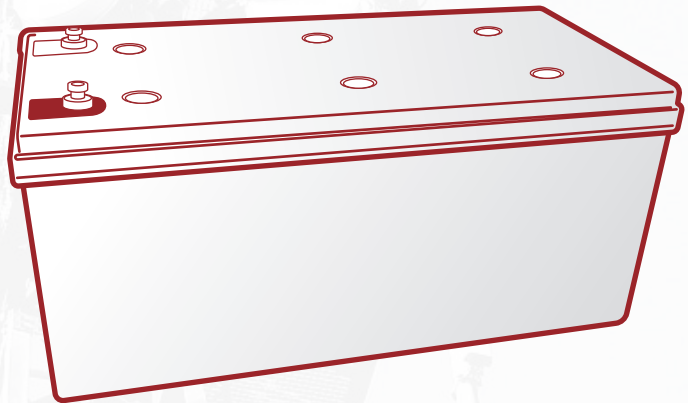
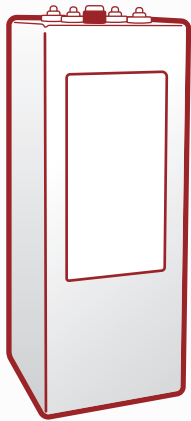
Standby power



Float lighting

Our range of OPzV and technical specifications

Model	Rated voltage	10Hr	Length		Width		Height		TH		Weight		Terminal
	V	1.80Vh/cell	mm	in.	mm	in.	mm	in.	mm	in.	kg	lbs	
RP01 2V-OPzV200	2	224	103	4.06	206	8.11	355	13.98	390	15.35	18.8	41.5	T7-A
RP02 2V-OPzV250	2	280	124	4.88	206	8.11	355	13.98	390	15.35	23.1	50.9	T7-A
RP03 2V-OPzV300	2	336	145	5.71	206	8.11	355	13.98	390	15.35	27.1	59.8	T7-A
RP04 2V-OPzV350	2	492	124	4.88	206	8.11	471	18.54	506	19.92	29	63.9	T7-A
RP05 2V-OPzV420	2	470	145	5.71	206	8.11	471	18.54	506	19.92	34.5	76.1	T7-A
RP06 2V-OPzV490	2	549	166	6.54	206	8.11	471	18.54	506	19.92	39	86	T7-A
RP07 2V-OPzV600	2	672	145	5.71	206	8.11	646	25.43	681	26.81	46	101.4	T7-A
RP08 2V-OPzV800	2	896	191	7.52	210	8.27	646	25.43	681	26.81	65.1	143.5	T7-A
RP09 2V-OPzV1000	2	1120	233	9.17	210	8.27	646	25.43	681	26.81	78.5	173.1	T7-A
RP10 2V-OPzV1200	2	1344	275	10.83	210	8.27	646	25.43	681	26.81	93	205.1	T7-A
RP11 2V-OPzV1500	2	1680	275	10.83	210	8.27	796	31.34	831	32.72	115	253.6	T7-A
RP12 12V-OPzV100	12	108	408	16.1	177	6.97	225	8.9	225	8.9	38.3	84.5	T11
RP13 12V-OPzV120	12	129	483	19	170	6.69	238.5	9.4	238.5	9.4	45.7	100.8	T11
RP14 12V-OPzV140	12	151	532	20.9	207	8.15	214	8.4	220	8.7	54	119.1	T11
RP15 12V-OPzV160	12	173	532	20.9	207	8.15	214	8.4	220	8.7	59.3	130.8	T11
RP16 12V-OPzV180	12	195	522	20.6	240	9.45	218	8.6	224	8.8	67.4	148.6	T11
RP17 12V-OPzV200	12	216	522	20.6	268	10.55	220	8.7	226	8.9	75.9	167.4	T11



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