

OPzV Series

16 OPzV 2000 2V2000Ah

Sacred Sun OPzV series are valve regulated lead-acid cells which use a combination of tubular positive plate woven gauntlets, pasted negative plate design and gel electrolyte using advanced filling techniques in production which assure superior service life and excellent battery reliability. The battery has excellent cyclic performance and charge acceptance ability. It can be used in high-low temperature environment and poor grid condition.

Benefits

- Very long life according to EUROBAT Classification
- 1500+ cycles at 80% DOD
- High rate discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- GEL state electrolyte prevents leakage and layering
- Low resistance PVC or PF micro-porous separator ensures low self-discharge rate
- Optional racking offers easy installation (vertical or horizontal)

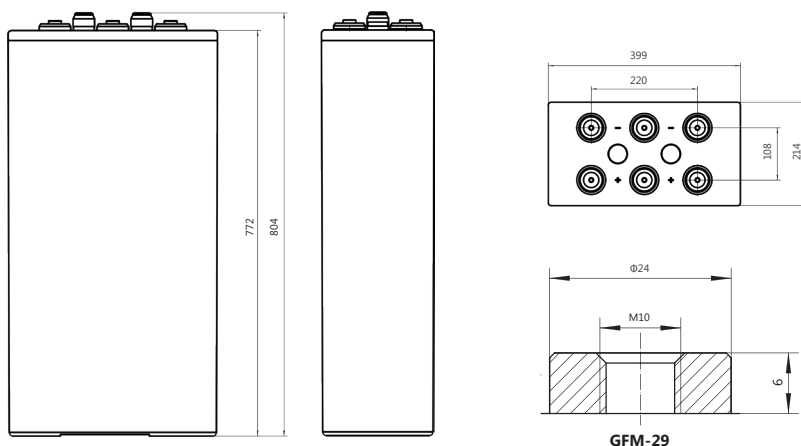
Drawing

Applications

- Telecommunications
- Energy storage system
- Hybrid power system
- Power system
- UPS

Standards

- IEC 60896-21/22
- IEC 61427
- DIN 43539-T5
- DIN 40742
- EUROBAT guide



Specifications

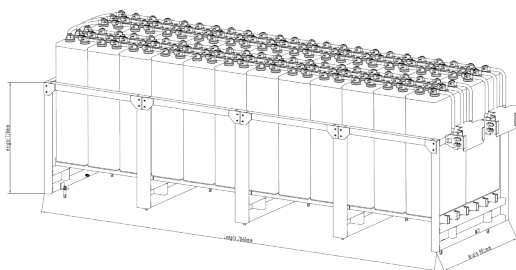
Battery Model	16 OPzV 2000			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (200A, 1.80V)	5HR (340A, 1.80V)	3HR (500A, 1.80V)	1HR (1000A, 1.80V)
	2000	1700	1500	1000
Dimensions (mm)	Length	Width	Height	Total Height
	399	214	772	804
Approx. Weight (kg)	153			
Reference Internal Resistance (mΩ)	0.26 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	7659			
Self-Discharge (25°C)	≤ 3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 400A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	12650			

Discharge Data

Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min	h												
	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	1479	1153	753.3	588.7	405.3	343.3	265.3	226.0	118.0	99.73	54.00	26.71	22.59	11.52
1.70	1437	1100	713.3	557.3	383.3	324.0	254.7	218.0	115.3	97.07	53.27	26.44	22.38	11.45
1.75	1360	1053	673.3	528.0	363.3	312.0	244.7	210.0	112.0	94.87	52.60	26.12	22.18	11.38
1.80	1309	1000	636.0	500.0	340.0	290.7	235.3	200.0	108.7	93.13	52.00	25.90	21.92	11.30
1.85	1233	953	602	473.3	326.0	280.7	222.7	189.3	105.7	90.6	51.27	25.35	21.58	11.23

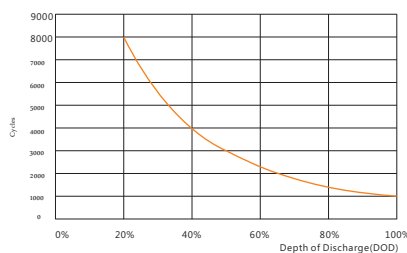
Constant Power Discharge Data (25°C, W/cell)														
End Voltage (V/cell)	min	h												
	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	2620	1975.3	1315.0	985.0	804.8	681.0	547.6	441.4	234.8	199.00	108.00	53.60	45.20	23.08
1.70	2550	1914.0	1265.0	950.0	776.2	657.1	528.6	436.2	230.0	194.50	106.67	52.85	44.75	22.90
1.75	2480	1880.0	1235.0	930.0	757.1	638.1	514.3	420.0	226.7	189.50	105.33	52.17	44.37	22.74
1.80	2426	1830.0	1206.7	915.0	704.8	595.2	495.2	410.0	222.4	185.70	104.00	51.80	43.90	22.59
1.85	2281	1763.1	1155.0	875.0	642.9	566.7	459.5	387.1	215.2	181.30	102.50	50.93	43.20	22.45

Rack Layout

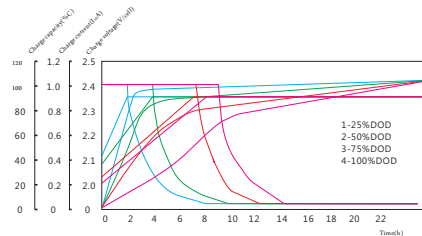


48V Standard Rack
 Rack material: powder-coated steel
 Height*width: 1*2
 Ref. 16 OPzV 2000 Rack (approx. weight: 3900kg)

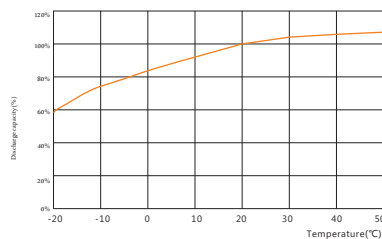
Performance Curve



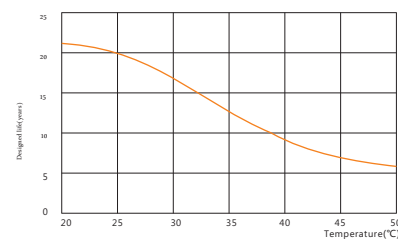
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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