

OPzV Series

24 OPzV 3000A 2V3000Ah

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)

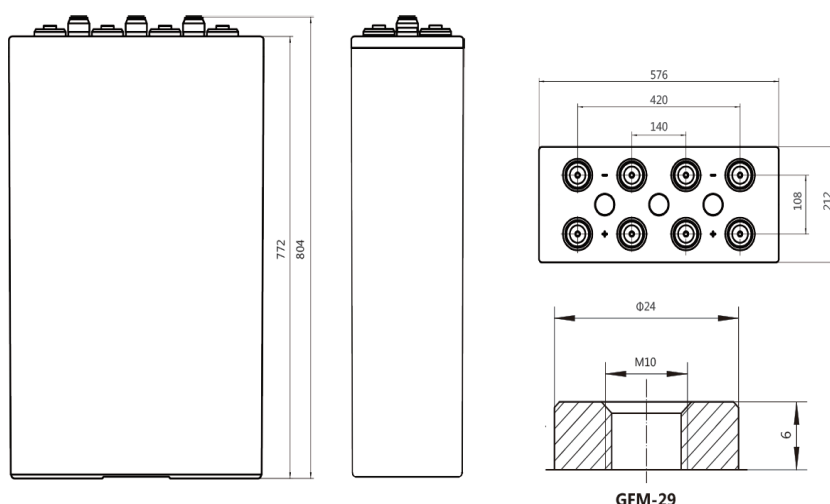
Applications

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

Standards

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

Drawing



Specifications

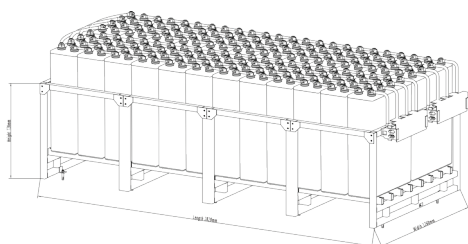
Battery Model	24 OPzV 3000A			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (300A, 1.80V)	5HR (510A, 1.80V)	3HR (750A, 1.80V)	1HR (1500A, 1.80V)
	3000	2550	2250	1500
Dimensions (mm)	Length	Width	Height	Total Height
	576	212	772	804
Approx. Weight (kg)	219.5			
Reference Internal Resistance (mΩ)	0.24 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	12420			
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: 600A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	16600			

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	36	48	100	120	240
1.65	2219	1730	1130.0	883.0	608.0	515.0	398.0	339.0	177.0	149.6	103.87	81.00	40.07	33.89	17.28
1.70	2156	1650	1070.0	836.0	575.0	486.0	382.0	327.0	173.0	145.6	101.80	79.90	39.66	33.57	17.18
1.75	2040	1580	1010.0	792.0	545.0	468.0	367.0	315.0	168.0	142.3	100.03	78.90	39.18	33.27	17.07
1.80	1964	1500	954.0	750.0	510.0	436.0	353.0	300.0	163.0	139.7	98.57	78.00	38.85	32.88	16.95
1.85	1850	1430	903	710.0	489.0	421.0	334.0	284.0	158.6	135.9	96.57	76.90	38.03	32.37	16.85

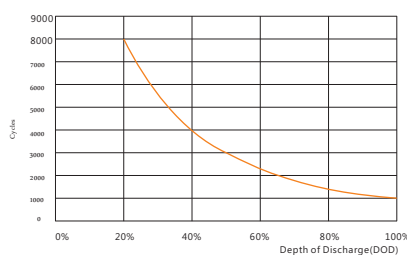
Constant Power Discharge Data (25°C, W/cell)															
End Voltage (V/cell)	min	h													
	30	1	2	3	5	6	8	10	20	24	36	48	100	120	240
1.65	4020	2980.0	1960.0	1477.5	1207.1	1021	821.4	662.1	352.1	298.50	207.50	162.00	80.40	67.80	34.62
1.70	3960	2920.0	1916.0	1444.0	1164.3	985.7	792.9	654.3	345.0	291.75	203.97	160.00	79.28	67.13	34.35
1.75	3840	2840.0	1864.0	1404.0	1135.7	957.1	771.4	630.0	340.0	284.25	200.08	158.00	78.26	66.56	34.11
1.80	3720	2780.0	1832.0	1392.0	1057.1	892.9	742.9	615.0	333.6	278.55	196.85	156.00	77.70	65.85	33.89
1.85	3421	2620.0	1732.5	1312.5	964.3	850.0	689.3	580.7	322.9	271.95	193.15	153.75	76.40	64.80	33.68

Rack Layout

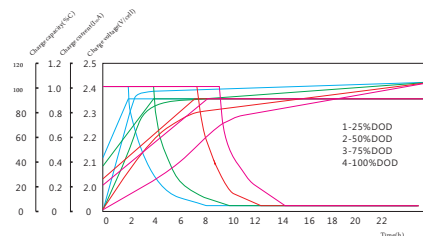


48V Standard Rack
 Rack material: powder-coated steel
 Height*width: 1*2
 Ref. 24 OPzV 3000 Rack (approx. weight: 5550kg)

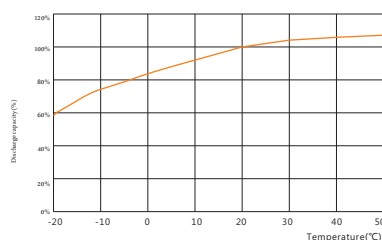
Performance Curve



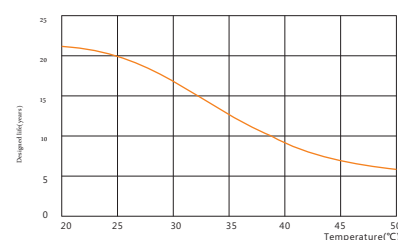
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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