

# OPzV Series

## 24 OPzV 3000 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)

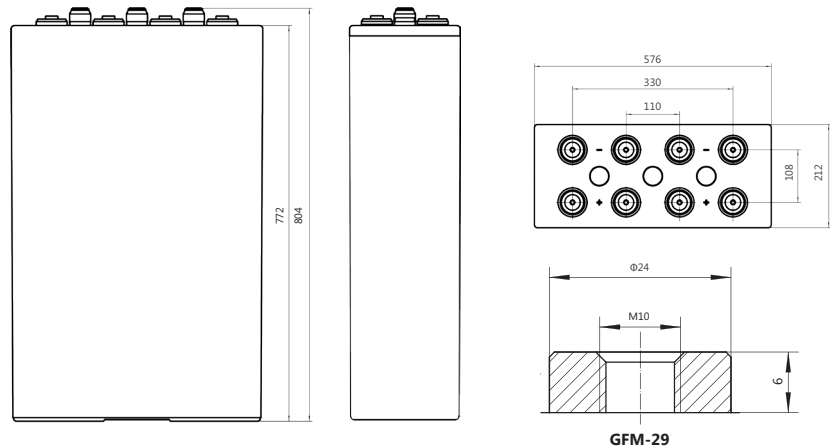
### Applications

- 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

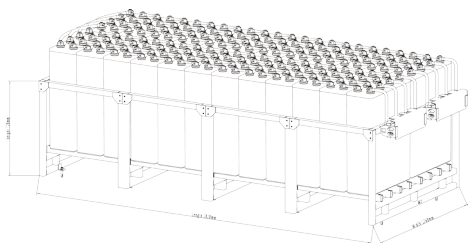
Battery Model	24 OPzV 3000			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (300A, 1.80V)	5HR (510A, 1.80V)	3HR (750A, 1.80V)	1HR (1500A, 1.80V)
	3000	2550	2250	1500
Dimensions (mm)	Length	Width	Height	Total Height
	576	212	772	804
Approx. Weight (kg)	219.5			
Reference Internal Resistance (mΩ)	0.15 (fully charged @ 25°C)			
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)	18986			

## Discharge Data

Constant Current Discharge Data (25°C, A)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	3851	3443	3009	2615	2219	1730	1130.0	883.0	608.0	515.0	398.0	339.0	177.0	149.6	81.00	40.07	33.89	17.28
1.70	3608	3227	2792	2498	2156	1650	1070.0	836.0	575.0	486.0	382.0	327.0	173.0	145.6	79.90	39.66	33.57	17.18
1.75	3443	3086	2729	2376	2040	1580	1010.0	792.0	545.0	468.0	367.0	315.0	168.0	142.3	78.90	39.18	33.27	17.07
1.80	3251	2933	2588	2303	1964	1500	954.0	750.0	510.0	436.0	353.0	300.0	163.0	139.7	78.00	38.85	32.88	16.95
1.85	3060	2768	2448	2190	1850	1430	903	710.0	489.0	421.0	334.0	284.0	158.6	135.9	76.90	38.03	32.37	16.85

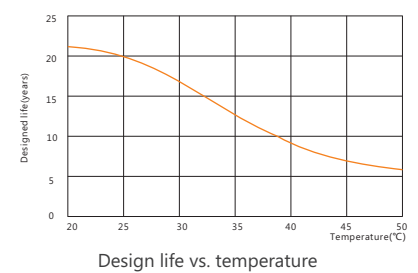
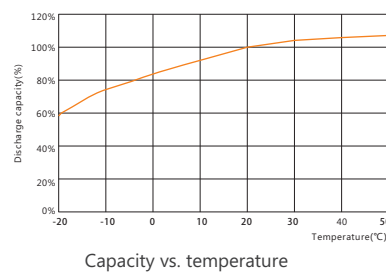
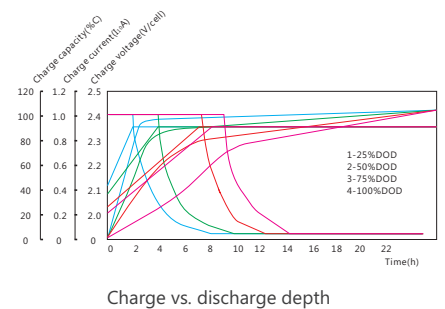
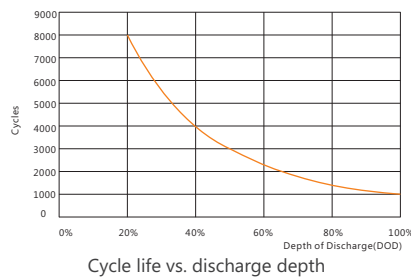
Constant Power Discharge Data (25°C, W/cell)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	6456	5772	5172	4700	4020	2980.0	1960.0	1477.5	1207.1	1021	821.4	662.1	352.1	298.50	162.00	80.40	67.80	34.62
1.70	6202	5580	4994	4580	3960	2920.0	1916.0	1444.0	1164.3	985.7	792.9	654.3	345.0	291.75	160.00	79.28	67.13	34.35
1.75	5742	5319	4816	4420	3840	2840.0	1864.0	1404.0	1135.7	957.1	771.4	630.0	340.0	284.25	158.00	78.26	66.56	34.11
1.80	5138	4863	4592	4240	3720	2780.0	1832.0	1392.0	1057.1	892.9	742.9	615.0	333.6	278.55	156.00	77.70	65.85	33.89
1.85	4685	4399	4221	3921	3421	2620.0	1732.5	1312.5	964.3	850.0	689.3	580.7	322.9	271.95	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



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