

OPzV Series

20 OPzV 2500A 2V2500Ah

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)

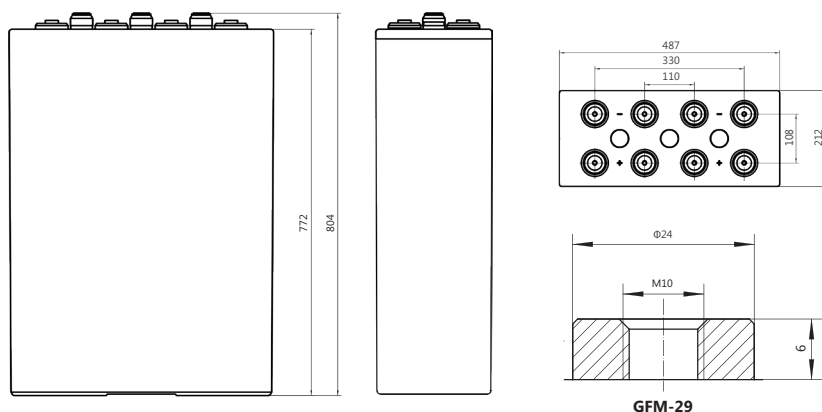
Drawing

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



GFM-29

Specifications

Battery Model	20 OPzV 2500 A			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (250A, 1.80V)	5HR (425A, 1.80V)	3HR (625A, 1.80V)	1HR (1250A, 1.80V)
	2500	2125	1875	1250
Dimensions (mm)	Length	Width	Height	Total Height
	487	212	772	804
Approx. Weight (kg)	181			
Reference Internal Resistance (mΩ)	0.25 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	9320			
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: 500A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	15820			

Discharge Data

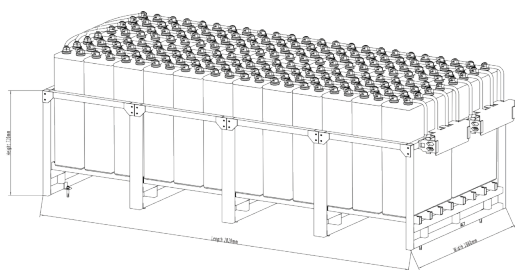
Constant Current Discharge Data (25°C, A)

End Voltage (V/cell)	min					h													
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	72	100	120	240
1.65	3205	2869	2508	2179	1849	1442	941.7	735.8	506.7	429.2	331.7	282.5	147.5	124.7	67.50	45.24	33.39	28.24	14.40
1.70	3006	2689	2326	2081	1796	1375	891.7	696.7	479.2	405.0	318.3	272.5	144.2	121.3	66.58	44.69	33.05	27.98	14.31
1.75	2869	2571	2274	1980	1700	1317	841.7	660.0	454.2	390.0	305.8	262.5	140.0	118.6	65.75	44.15	32.65	27.73	14.23
1.80	2709	2444	2156	1919	1636	1250	795.0	625.0	425.0	363.3	294.2	250.0	135.8	116.4	65.00	43.71	32.38	27.40	14.13
1.85	2550	2306	2040	1825	1541	1192	753	591.7	407.5	350.8	278.3	236.7	132.2	113.3	64.08	42.94	31.69	26.98	14.04

Constant Power Discharge Data (25°C, W/cell)

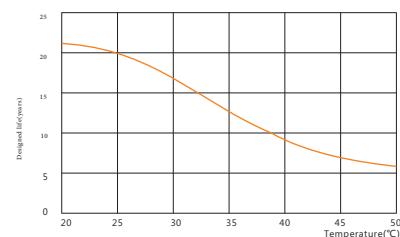
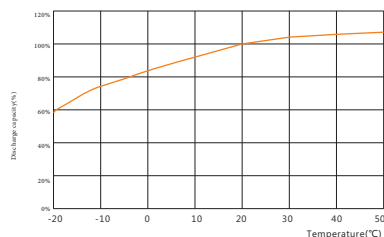
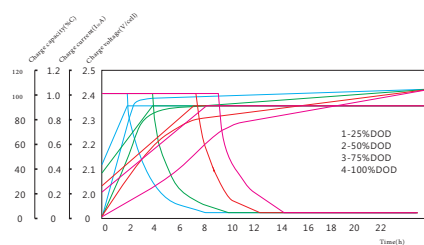
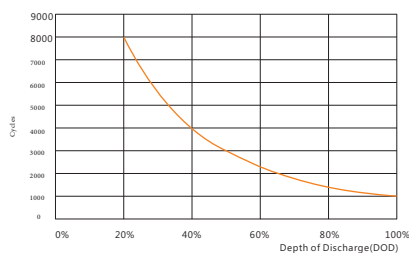
End Voltage (V/cell)	min					h													
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	72	100	120	240
1.65	5380	4810	4310	3917	3350	2483.3	1633.3	1231.3	1006	851.2	684.5	551.8	293.5	248.75	135.00	90.68	67.00	56.50	28.85
1.70	5168	4650	4162	3817	3300	2433.3	1596.7	1203.3	970.2	821.4	660.7	545.2	287.5	243.13	133.33	89.49	66.06	55.94	28.63
1.75	4902	4432	4013	3683	3200	2366.7	1553.3	1170.0	946.4	797.6	642.9	525.0	283.3	236.88	131.67	88.36	65.21	55.46	28.43
1.80	4331	4119	3827	3533	3100	2316.7	1526.7	1160.0	881.0	744.0	619.0	512.5	278.0	232.13	130.00	87.48	64.75	54.88	28.24
1.85	3604	3466	3317	3268	2851	2183.3	1443.8	1093.8	803.6	708.3	574.4	483.9	269.0	226.63	128.13	86.12	63.67	54.00	28.06

Rack Layout



48V Standard Rack
 Rack material: powder-coated steel
 Height*width: 1*2
 Ref. 20 OPzV 2500 Rack (approx. weight: 4680kg)

Performance Curve



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