

OPzV Series

5 OPzV 350 2V350Ah

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

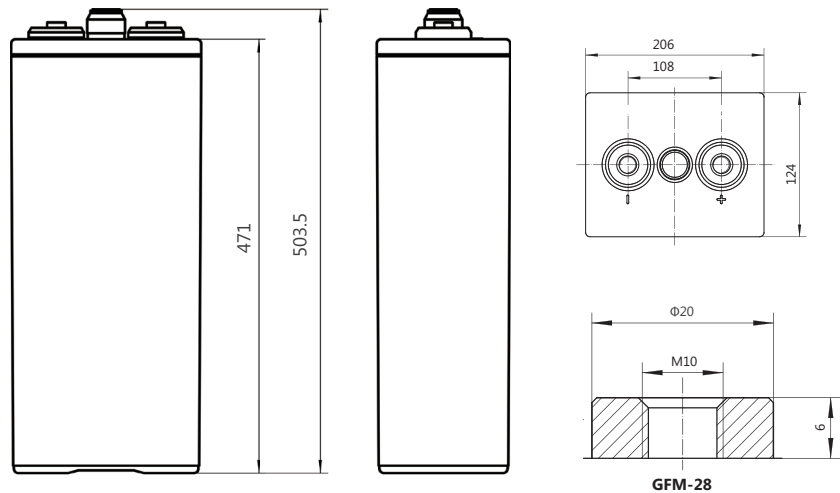
- Very long life according to EUROBAT Classification
- 1500+ cycles at 80% DOD
- High rate discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- GEL state electrolyte prevents leakage and layering
- Low resistance PVC or PF micro-porous separator ensures low self-discharge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



Applications

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

Drawing



Standards

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

Specifications

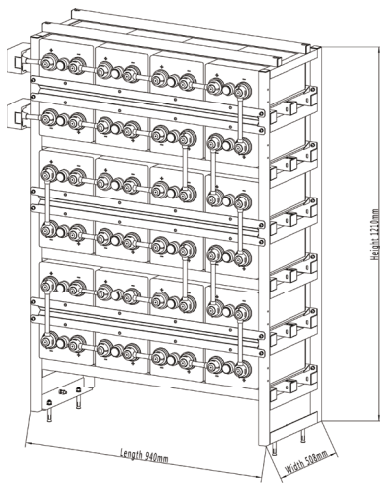
Battery Model	5 OPzV 350			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (35A, 1.80V)	5HR (59.5A, 1.80V)	3HR (87.5A, 1.80V)	1HR (175A, 1.80V)
	350	297.5	262.5	175
Dimensions (mm)	Length	Width	Height	Total Height
	124	206	471	503.5
Approx. Weight (kg)	27.5			
Reference Internal Resistance (mΩ)	0.58 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	2116			
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: 70A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3049			

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	487	453	413	359	290	202	133.2	103.0	70.9	60.1	45.5	36.7	20.0	17.20	9.45	4.89	4.10	2.10
1.70	450	423	384	341	279	193	129.5	97.5	67.1	56.7	44.6	36.2	19.7	16.74	9.32	4.85	4.07	2.06
1.75	423	404	371	322	261	184	127.0	92.4	63.6	54.6	42.8	35.6	19.4	16.42	9.21	4.80	4.03	2.03
1.80	398	386	356	309	249	175	121.0	87.5	59.5	50.9	41.2	35.0	18.9	16.14	9.10	4.75	3.99	2.01
1.85	381	360	336	293	230	167	115	82.8	57.1	49.1	39.0	34.1	18.3	15.6	8.97	4.67	3.93	1.98

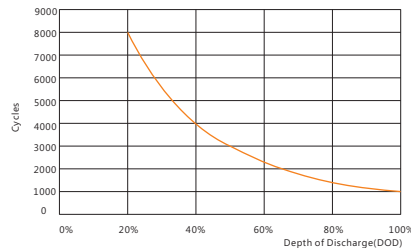
Constant Power Discharge Data (25°C, W/cell)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	908	836	723	672	583	411.7	283.3	211.7	140.8	119.2	95.8	77.3	41.1	34.50	19.00	9.85	8.25	4.25
1.70	822	758	669	615	550	399.2	267.5	201.7	135.8	115.0	92.5	76.3	40.3	33.60	18.60	9.75	8.16	4.15
1.75	752	699	623	566	500	390.8	250.0	193.3	132.5	111.7	90.0	73.5	39.7	33.00	18.45	9.65	8.07	4.08
1.80	694	633	562	514	449	356.7	238.3	182.5	123.3	104.2	86.7	71.8	38.9	32.20	18.20	9.50	8.00	4.02
1.85	639	553	504	458	399	324.2	222.5	167.5	112.5	99.2	80.4	67.8	37.7	31.40	17.95	9.35	7.92	3.97

Rack Layout

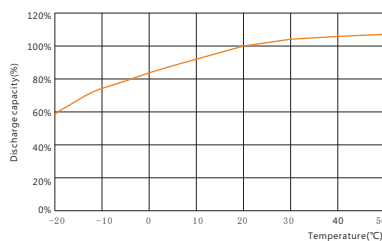


48V Standard Rack (Anti-seismic rack is optional)
 Rack material: powder-coated steel
 Height*width: 6*4/4*6 (optional)
 Ref. 5 OPzV 350 Rack (approx. weight: 740kg)

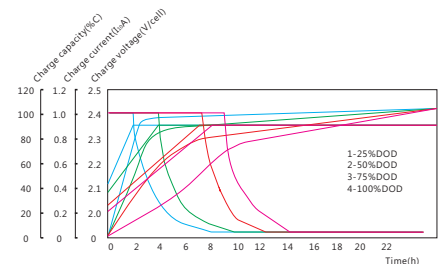
Performance Curve



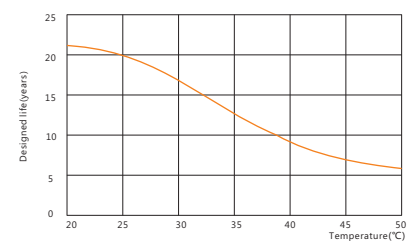
Cycle life vs. discharge depth



Capacity vs. temperature



Charge vs. discharge depth



Design life vs. temperature

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