

OPzV Series

5 OPzV 250 2V250Ah

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)

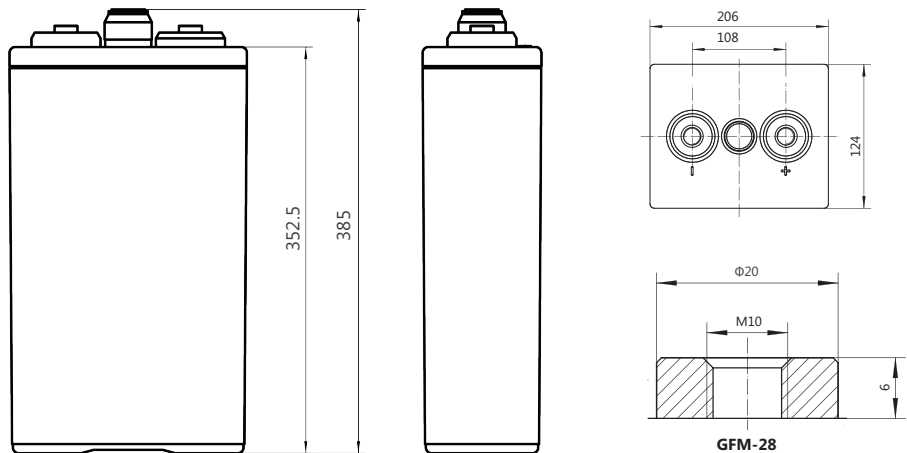
Drawing

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

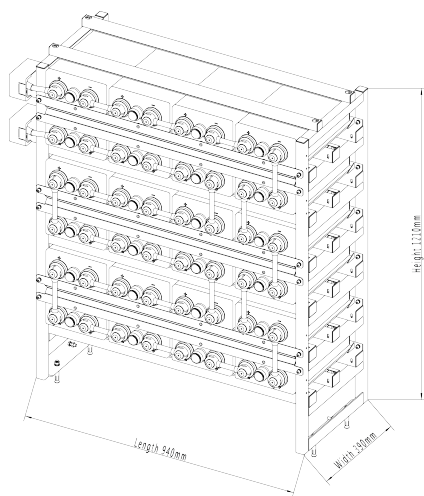
Battery Model	5 OPzV 250			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (25A, 1.80V)	5HR (42.5A, 1.80V)	3HR (62.5A, 1.80V)	1HR (125A, 1.80V)
	250	212.5	187.5	125
Dimensions (mm)	Length	Width	Height	Total Height
	124	206	352.5	385
Approx. Weight (kg)	21.1			
Reference Internal Resistance (m Ω)	0.57 \pm 15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	1472			
Self-Discharge (25°C)	\leq 3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 50A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3070			

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	378	338	295	257	218	144	94.2	73.6	50.7	42.9	33.2	28.3	14.8	12.47	6.75	3.50	2.97	1.52
1.70	354	317	274	243	212	138	89.2	69.7	47.9	40.5	31.8	27.3	14.4	12.13	6.66	3.47	2.94	1.50
1.75	338	303	265	230	200	132	84.2	66.0	45.4	39.0	30.6	26.3	14.0	11.86	6.58	3.43	2.92	1.48
1.80	319	288	254	221	193	125	79.5	62.5	42.5	36.3	29.4	25.0	13.6	11.64	6.50	3.39	2.88	1.47
1.85	300	272	240	209	182	119	75	59.2	40.8	35.1	27.8	23.7	13.2	11.3	6.41	3.33	2.84	1.44

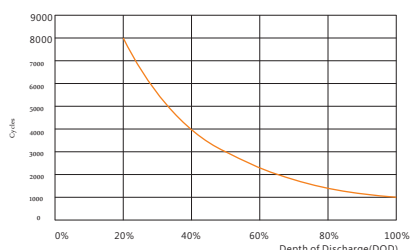
Constant Power Discharge Data (25°C, W/cell)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	629	573	518	465	389	262.5	164.4	123.1	100	85.4	66.4	57.7	29.1	24.92	13.78	7.21	6.23	3.06
1.70	595	549	491	448	373	250.0	158.1	118.8	95.6	81.7	65.4	56.5	27.9	24.33	13.70	7.10	6.17	3.03
1.75	558	528	475	430	360	242.5	154.4	116.3	92.5	77.5	63.6	54.2	27.3	23.75	13.58	7.04	6.11	2.99
1.80	503	469	435	398	340	232.5	150.0	114.4	85.8	74.6	60.3	52.3	26.6	23.25	13.52	6.98	6.04	2.96
1.85	451	408	379	354	308	225.0	144.4	109.4	81.3	70.3	56.7	47.7	25.6	22.67	13.36	6.91	5.94	2.93

Rack Layout

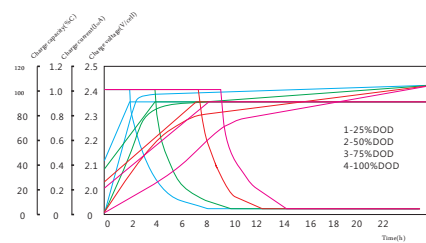


48V Standard Rack (Anti-seismic rack is optional)
 Rack material: powder-coated steel
 Height*width: 6*4/4*6 (optional)
 Ref. 5 OPzV 250 Rack (approx. weight: 600kg)

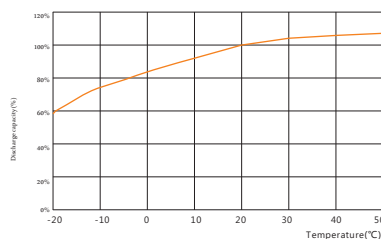
Performance Curve



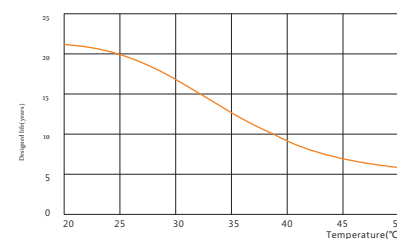
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature

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