OPzV Series

GFMJ-300H 2V300Ah (NG2-300)



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-SiO2 micro-porous separator ensures low self-discharge rate
- Optional racking offers easy installation (vertical or horizontal)

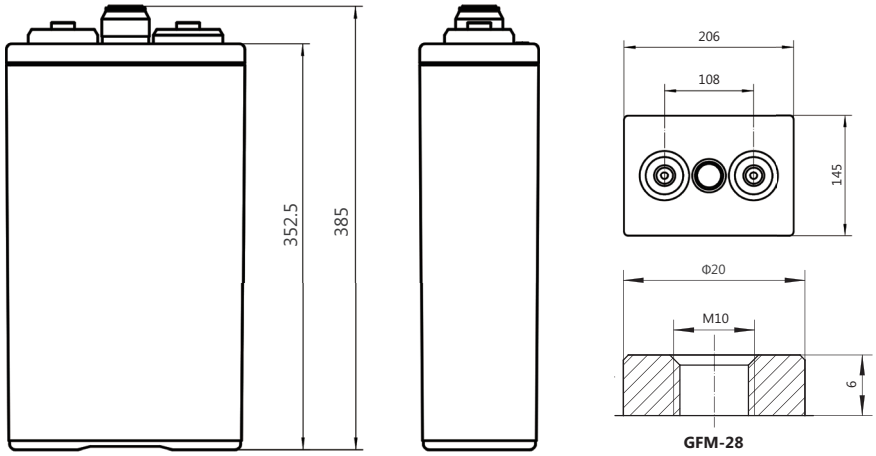
Applications

- 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

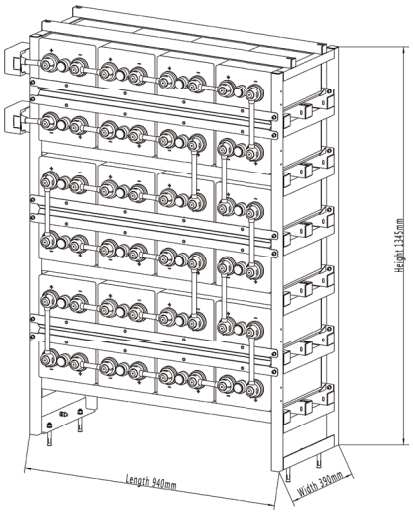
Battery Model	GFMJ-300H			
Design Life (years, 25℃)	20			
Capacity (Ah, 25℃)	10HR (30A, 1.80V)	5HR (51A, 1.80V)	3HR (75A, 1.80V)	1HR (150A, 1.80V)
	300	255	225	150
Dimensions (mm)	Length	Width	Height	Total Height
	145	206	352.5	385
Approx. Weight (kg)	25.5			
Reference Internal Resistance (mΩ)	0.60 (fully charged @ 25℃)			
Maximum Discharge Current (A/3 Sec.)	1794			
Self-Discharge (25℃)	⩽3% per month			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.33 (-3.5mV/℃/cell), max charge current: 60A		2.25 (-3.5mV/℃/cell)	
Short Circuit Current (A)	2999			

Discharge Data

Constant Current Discharge Data (25℃, 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	453	405	354	308	261	173	113.0	88.3	60.8	51.5	39.8	33.9	17.7	14.96	8.10	4.20	3.56	1.82
1.70	425	380	329	292	254	165	107.0	83.6	57.5	48.6	38.2	32.7	17.3	14.56	7.99	4.16	3.53	1.80
1.75	405	363	318	276	240	158	101.0	79.2	54.5	46.8	36.7	31.5	16.8	14.23	7.89	4.12	3.50	1.78
1.80	383	345	305	265	231	150	95.4	75.0	51.0	43.6	35.3	30.0	16.3	13.97	7.80	4.07	3.46	1.76
1.85	360	326	288	251	218	143	90	71.0	48.9	42.1	33.4	28.4	15.9	13.6	7.69	4.00	3.41	1.73

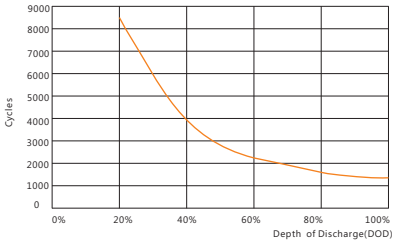
Constant Power Discharge Data (25℃, W/cell)																		
End Voltage (V/cell)	min					h												
	5	10	15	20	30	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	755	687	621	558	467	315.0	197.3	147.8	120.0	102.5	79.7	69.2	34.9	29.90	16.54	8.65	7.48	3.67
1.70	714	659	590	537	447	300.0	189.8	142.5	114.8	98.0	78.5	67.8	33.5	29.20	16.44	8.52	7.40	3.63
1.75	670	633	570	516	432	291.0	185.3	139.5	111.0	93.0	76.3	65.0	32.8	28.50	16.30	8.45	7.33	3.59
1.80	604	563	522	478	408	279.0	180.0	137.3	103.0	89.5	72.3	62.7	31.9	27.90	16.23	8.38	7.25	3.55
1.85	541	489	455	425	368	270.0	173.3	131.3	97.5	84.3	68.0	57.2	30.7	27.20	16.03	8.29	7.13	3.51

Rack Layout

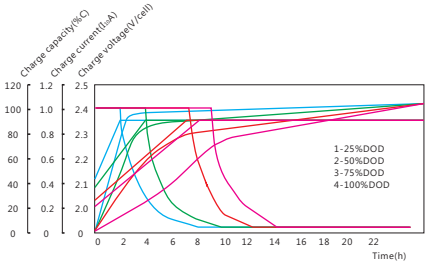


48V Standard Rack (Anti-seismic rack is optional)
Rack material: powder-coated steel
Height*width: 6*4/4*6 (optional)
Ref. GFMJ-300H Rack (approx. weight: 685kg)

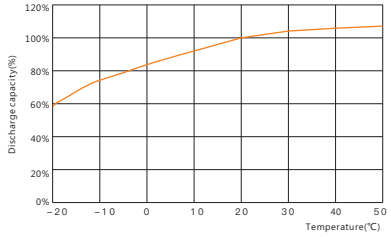
Performance Curve



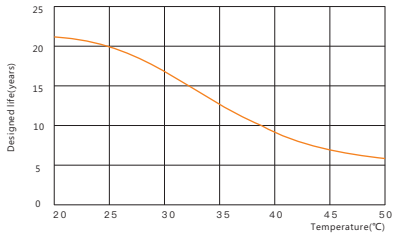
Cycle life vs. discharge depth



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature