OPzV Series

NG2-3000 2V3000Ah

Neuton Power 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)

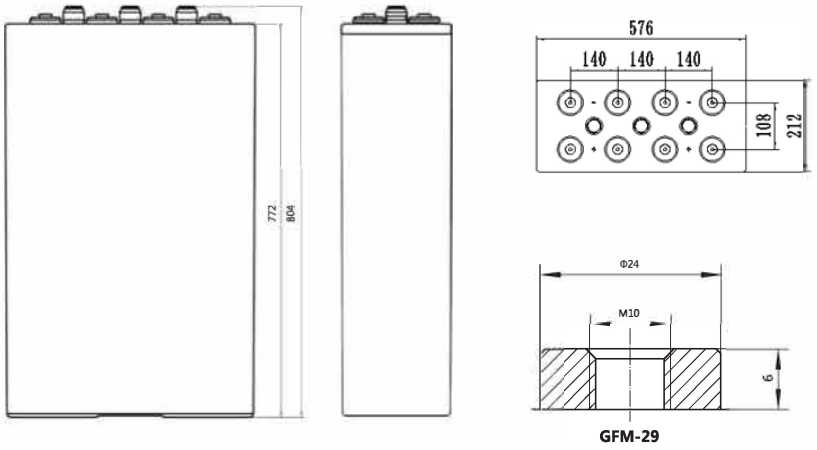
Applications

- 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

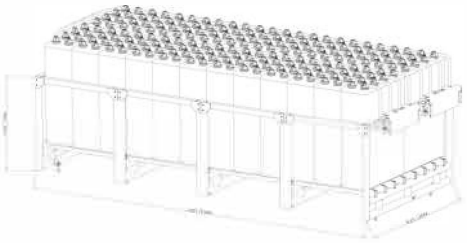
Battery Model	NG2-3000			
Design Life (years, 25℃)	20			
Capacity (Ah, 25℃)	10HR (300A, 1.80V)	5HR (510A, 1.80V)	3HR (750A, 1.80V)	1HR (1500A, 1.80V)
	3000	2550	2250	1500
Dimensions (mm)	Length	Width	Height	Total Height
	576	212	772	804
Approx. Weight (kg)	219.5			
Reference Internal Resistance (mΩ)	0.24 (fully charged @ 25℃)			
Maximum Discharge Current (A/3 Sec.)	12420			
Self-Discharge (25℃)	⩽3% per month			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.35 (-3.5mV/℃/cell), max charge current: 600A		2.25 (-3.5mV/℃/cell)	
Short Circuit Current (A)	18986			

Discharge Data

Constant Current Discharge Data (25℃, A)													
End Voltage (V/cell)	h												
	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	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	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	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	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	1430	903	710.0	489.0	421.0	334.0	284.0	158.6	135.9	76.90	38.03	32.37	16.85

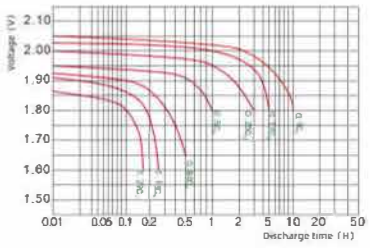
Constant Power Discharge Data (25℃, W/cell)													
End Voltage (V/cell)	h												
	1	2	3	5	6	8	10	20	24	48	100	120	240
1.65	2980.0	1960.0	1477.5	1207.1	1021	821.4	662.1	352.1	298.50	162.00	80.40	67.80	34.62
1.70	2920.0	1916.0	1444.0	1164.3	985.7	792.9	654.3	345.0	291.75	160.00	79.28	67.13	34.35
1.75	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	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	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

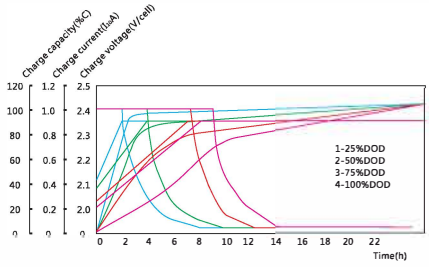


48V Standard Rack
Rack material: powder-coated steel
Height*width: 1*2
Ref. 24 OPzV 3000 Rack (approx. weight: 5550kg)

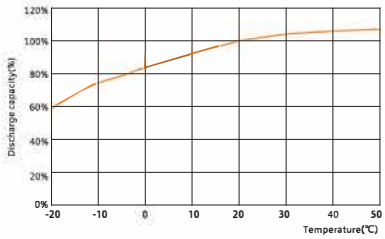
Performance Curve



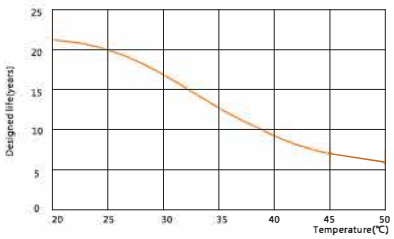
Discharge voltage vs. discharge time



Charge vs. discharge depth



Capacity vs. temperature



Design life vs. temperature