

# NSB OPzV Batteries

## Tubular Gel Technology



NorthStar OPzV Batteries deliver high capacity 2V reserve power and deep cycle performance.



NorthStar OPzV Batteries are ideal for applications such as renewable energy, telecom backup, oil and gas, energy storage, railway, emergency lighting and switchgear.

- Designed by NorthStar
- High capacity
- Maintenance free - no need to refill water
- ABS container
- V0 material optional
- M10 brass terminal
- Operating temperature range: -20°C to +55°C (-4°F to 131°F)
- EUROBAT design life definition: Long Life (12 years)
- Low gassing enables low ventilation requirements
- Optional vent tubing adaptors available
- Shelf life of up to 24 months
- DIN 40742 compliant
- IEC 60896-21/22 compliant
- Not subject to road transport regulations (ADR) when packed properly

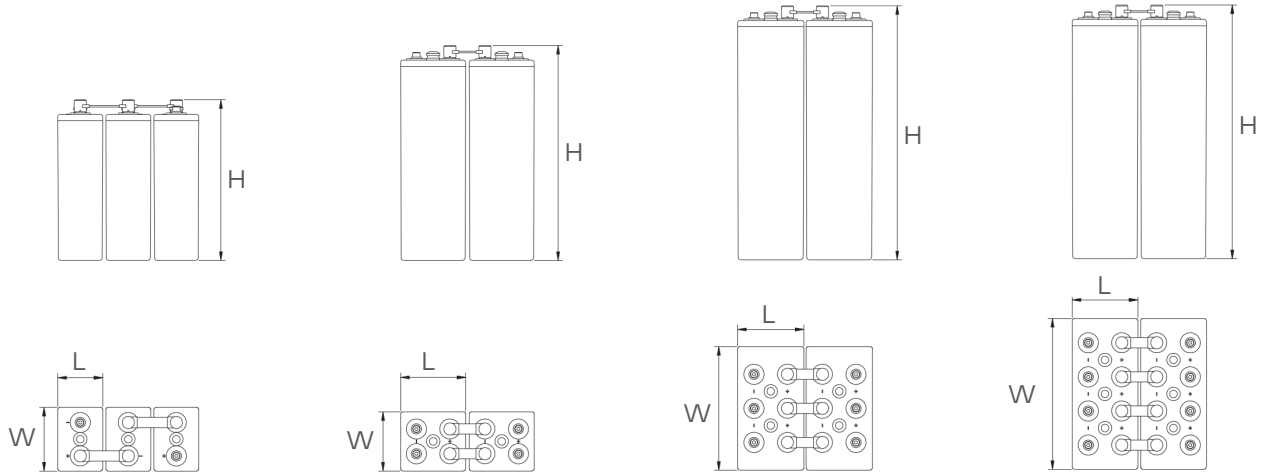
#### Electrical Data at 20°C (68°F)

Type	C <sub>1</sub> Ah	C <sub>2</sub> Ah	C <sub>3</sub> Ah	C <sub>5</sub> Ah	C <sub>8</sub> Ah	C <sub>10</sub> Ah
Ue (100%)/VPC	1.67	1.73	1.75	1.77	1.80	1.80
NSB 6 OPzV 300	173	231	259	283	301	319
NSB 5 OPzV 350	221	261	319	381	389	395
NSB 6 OPzV 420	267	315	385	459	468	476
NSB 7 OPzV 490	311	367	446	533	543	552
NSB 6 OPzV 600	394	476	558	634	680	714
NSB 8 OPzV 800	531	641	752	854	915	962
NSB 10 OPzV 1000	657	793	930	1057	1133	1190
NSB 12 OPzV 1200	794	958	1124	1277	1369	1438
NSB 12 OPzV 1500	852	988	1221	1339	1420	1571
NSB 16 OPzV 2000	1134	1317	1627	1785	1893	2094
NSB 20 OPzV 2500	1417	1641	2027	2224	2358	2608
NSB 22 OPzV 2750	1562	1811	2238	2455	2603	2880
NSB 24 OPzV 3000	1704	1976	2441	2678	2840	3142

#### Electrical Data at 25°C (77°F)

Type	C <sub>1</sub> Ah	C <sub>2</sub> Ah	C <sub>3</sub> Ah	C <sub>5</sub> Ah	C <sub>8</sub> Ah	C <sub>10</sub> Ah
Ue (100%)/VPC	1.67	1.73	1.75	1.77	1.80	1.80
NSB 6 OPzV 300	178	238	267	292	310	329
NSB 5 OPzV 350	228	269	329	393	401	407
NSB 6 OPzV 420	275	324	396	473	483	491
NSB 7 OPzV 490	321	378	460	549	560	569
NSB 6 OPzV 600	406	491	575	654	701	736
NSB 8 OPzV 800	547	661	775	880	944	991
NSB 10 OPzV 1000	677	818	959	1090	1168	1227
NSB 12 OPzV 1200	817	986	1157	1315	1410	1481
NSB 12 OPzV 1500	878	1019	1258	1381	1464	1619
NSB 16 OPzV 2000	1169	1358	1678	1841	1952	2159
NSB 20 OPzV 2500	1460	1691	2089	2293	2431	2689
NSB 22 OPzV 2750	1610	1867	2307	2531	2684	2969
NSB 24 OPzV 3000	1757	2037	2517	2761	2928	3239

### Terminal Positions



NSB 6 OPzV 300 -  
NSB 6 OPzV 600

NSB 8 OPzV 800 -  
NSB 12 OPzV 1500

NSB 16 OPzV 2000

NSB 20 OPzV 2500 -  
NSB 24 OPzV 3000

### Other Technical Data

Battery Size	Length		Width		Height over pillar		Height with connectors		Weight		Internal Resistance (mΩ)	Short Circuit Current (A)
	mm	in	mm	in	mm	in	mm	in	kg	lbs		
NSB 6 OPzV 300	147	5.79	208	8.19	367	14.45	392	15.43	26.3	58.0	0.69	2950
NSB 5 OPzV 350	126	4.96	208	8.19	483.5	19.04	509	20.02	29.1	64.2	0.62	3270
NSB 6 OPzV 420	147	5.79	208	8.19	483.5	19.04	509	20.02	36.2	79.1	0.54	3750
NSB 7 OPzV 490	168	6.61	208	8.19	483.5	19.04	509	20.02	41.7	91.1	0.46	4400
NSB 6 OPzV 600	147	5.79	208	8.19	656	25.83	681	26.81	50.0	110.4	0.51	3970
NSB 8 OPzV 800	212	8.35	193	7.60	657	25.87	682	26.85	66.3	146.3	0.39	5190
NSB 10 OPzV 1000	212	8.35	235	9.25	659	25.94	684	26.93	81.7	180.2	0.33	6130
NSB 12 OPzV 1200	212	8.35	277	10.91	658	25.91	683	26.89	97.0	213.1	0.28	7230
NSB 12 OPzV 1500	212	8.35	277	10.91	809	31.85	834	32.83	111.9	246.1	0.25	8090
NSB 16 OPzV 2000	215	8.46	400	15.75	784	30.87	809	31.85	155.6	343.1	0.21	9640
NSB 20 OPzV 2500	214	8.43	489	19.25	782	30.79	807	31.77	190.4	419.2	0.16	12650
NSB 22 OPzV 2750	214	8.43	578	22.76	784	30.87	809	31.85	216.4	477.1	0.13	15570
NSB 24 OPzV 3000	214	8.43	578	22.76	784	30.87	809	31.85	226.2	498.1	0.11	18400

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All NorthStar batteries are compliant with:  
ISO 9001, ISO 14001 and ISO 18001.