

Tubular Gel Technology
OPzV Series

16 OPzV 2000

2V2000Ah(10hr)

Complying standards:

IEC60896-21/22: 2004 IEC61427-2014
YD/T1360-2005 DIN43539-T5
DIN40742:1999 GB/T 22473-2008



The ABT OPzV series are valve regulated lead-acid cells which use a combination of tubular positive plate woven gauntlets, pasted negative plate design, and special GEL electrolyte filling techniques, which assure the long life and excellent reliability of the battery. This series is widely used for large range of applications including telecommunication, power generating stations and distribution systems, power supply system, energy storage, UPS system, railway, airport and seaport signaling, emergency lighting, solar and it's suitable for harsh environment and poor power supply condition.

Mechanical Characteristics

	SI Unit	EN Unit
Length	399mm	15.71inch
Width	212mm	8.35inch
Height	772mm	30.39inch
Total Height	804mm	31.65inch
Approx. Weight	153.0kg	336.6lbs

Type of material for container and lids:
ABS Standard (FV0 Optional)

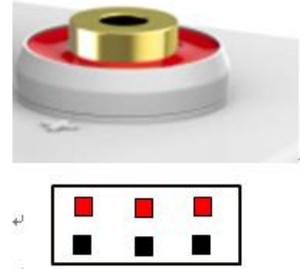
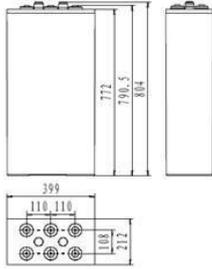
Product Characteristics

- Design life: 20 years at 68°F (20°C)
- Very long life according to EUROBAT Classification
- Up to 1500 deep discharge cycles
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- GEL state electrolyte prevents leakage and layering
- Low resistance PVC-SiO2 micro-porous separator ensure Low self-discharge rate
- Easy installation vertical or horizontal

Performance Characteristics

- Rated voltage: 2V (1 Cell)
- Rated capacity at 68°F (20°C)
 - 10h rate (200A, 1.80V) 2000Ah
 - 5h rate (340A, 1.80V) 1700Ah
 - 1h rate (1000A, 1.80V) 1000Ah
- Internal resistance:
 - 0.22mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤3% per month 68°F (20°C)
- Maximum discharge current:
 - 7659A(3s) at 68°F (20°C)
- Working temperature range:
 - Discharge: -25~60°C
 - Charge: -10~60°C
 - Storage: -25~60°C
- Charging method:
 - with constant voltage at 68°F (20°C)
 - Maximum charge current:400A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.37V/ piece
 - Standby use: 2.27V/ piece

Dimensions/Terminal



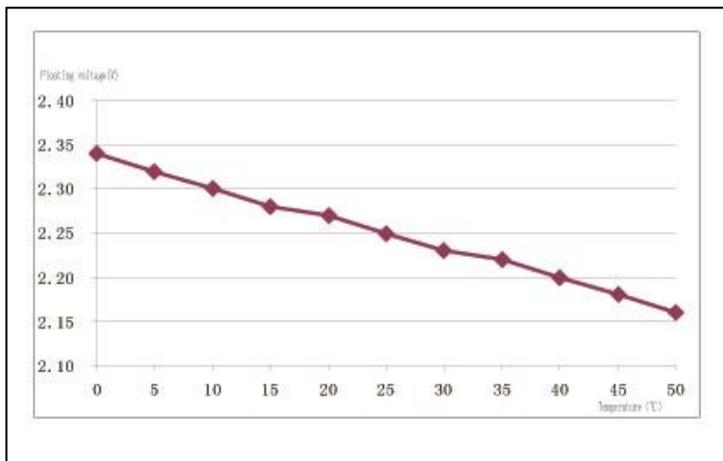
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	2567	2295	2006	1743	1479	1153	753.3	588.7	405.3	343.3	265.3	226.0	118.0	99.73	54.00	26.71	22.59	11.52
1.70	2405	2151	1861	1665	1437	1100	713.3	557.3	383.3	324.0	254.7	218.0	115.3	97.07	53.27	26.44	22.38	11.45
1.75	2295	2057	1819	1584	1360	1053	673.3	528.0	363.3	312.0	244.7	210.0	112.0	94.87	52.60	26.12	22.18	11.38
1.80	2167	1955	1725	1535	1309	1000	636.0	500.0	340.0	290.7	235.3	200.0	108.7	93.13	52.00	25.90	21.92	11.30
1.85	2040	1845	1632	1460	1233	953	602	473.3	326.0	280.7	222.7	189.3	105.7	90.6	51.27	25.35	21.58	11.23

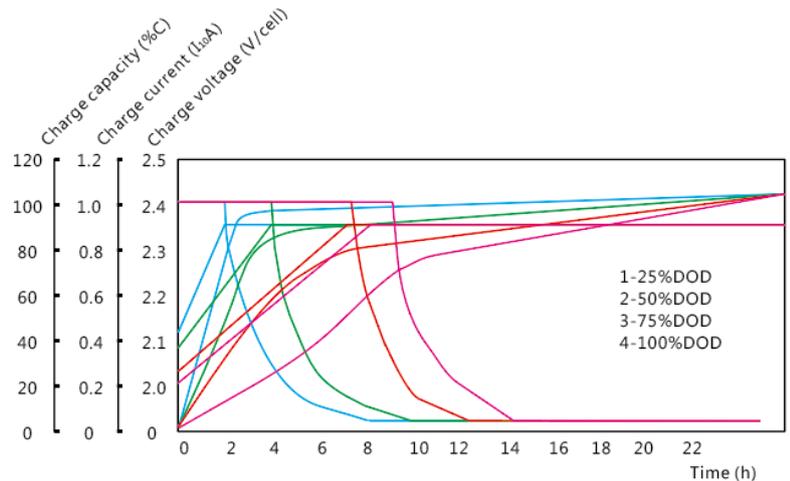
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	4060	3700	3328	3049	2620	1975.3	1315.0	985	804.8	681.0	547.6	441.4	234.8	199.0	108.0	53.60	45.20	23.08
1.70	3919	3550	3180	2930	2550	1914.0	1265.0	950	776.2	657.1	528.6	436.2	230.0	194.5	106.6	52.85	44.75	22.90
1.75	3700	3402	3066	2830	2480	1880.0	1235.0	930	757.1	638.1	514.3	420.0	226.7	189.5	105.3	52.17	44.37	22.74
1.80	3325	3220	2960	2745	2426	1830.0	1206.7	915	704.8	595.2	495.2	410.0	222.4	185.7	104.0	51.80	43.90	22.59
1.85	3123	2933	2812	2614	2281	1763.1	1155.0	875	642.9	566.7	459.5	387.1	215.2	181.3	102.5	50.93	43.20	22.45

Floating Charge Voltage vs. Temperature



Cycle charge characteristic curve (at 20°C/68 °F)



Contact information

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ABT VRLA Battery: Available power range from 26Ah to 3000Ah.

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