

Tubular Gel Technology
OPzV Series

12 OPzV 1200

2V1200Ah(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	275mm	10.83inch
Width	210mm	8.27inch
Height	646mm	25.43inch
Total Height	678.5mm	26.71inch
Approx. Weight	88.0kg	193.6lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

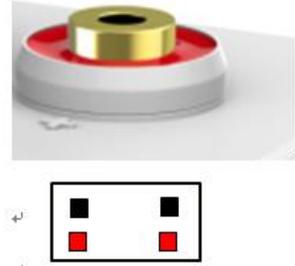
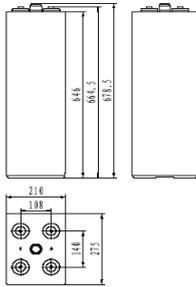
Product Characteristics

- 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 (120A, 1.80V) 1200Ah
 - 5h rate (204A, 1.80V) 1020Ah
 - 1h rate (600A, 1.80V) 600Ah
- Internal resistance:
 - 0.32mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 - ≤3% per month 68°F(20°C)
- Maximum discharge current:
 - 4355A(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:240A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.37V/ piece
 - Standby use: 2.27V/ piece

Dimensions/Terminal



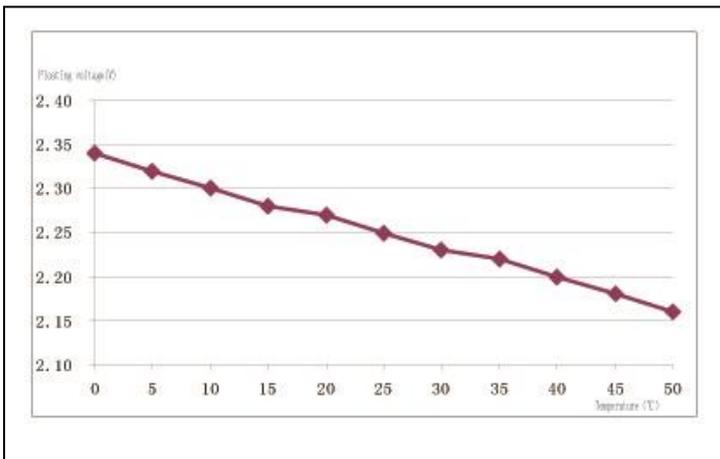
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1812	1620	1416	1230	1008	692	452.0	353.2	243.2	206.0	159.2	135.6	71.0	60.30	32.40	15.56	13.08	6.78
1.70	1698	1518	1314	1140	966	660	428.0	334.4	230.0	194.4	152.8	130.8	69.4	59.40	31.96	15.52	13.02	6.76
1.75	1620	1452	1284	1104	936	632	404.0	316.8	218.0	187.2	146.8	126.0	66.0	57.60	31.56	15.48	12.96	6.72
1.80	1530	1380	1218	1020	852	600	381.6	300.0	204.0	174.4	141.2	120.0	64.4	53.88	31.20	15.40	12.90	6.68
1.85	1440	1302	1152	960	800	572	361	284.0	195.6	168.4	133.6	113.6	62.6	53.4	30.76	15.35	12.84	6.66

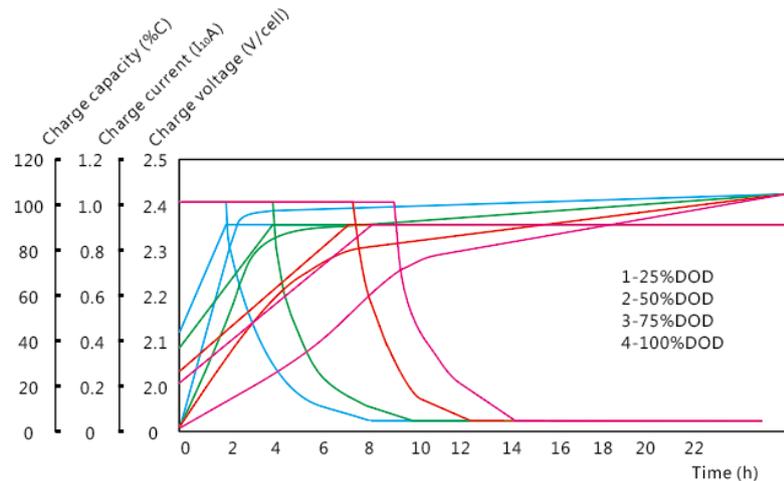
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	2690	2456	2231	2024	1704	1185.2	789.0	591.0	482.8	408.5	328.5	264.9	140.8	120.9	64.80	31.40	26.20	13.60
1.70	2573	2359	2125	1940	1632	1148.4	759.0	570.0	465.7	394.2	317.1	261.7	138.0	119.2	64.00	31.05	26.04	13.53
1.75	2437	2263	2049	1868	1584	1128.0	741.0	558.0	454.2	382.8	308.5	252.0	136.0	115.1	63.20	30.98	25.94	13.44
1.80	2268	2130	1944	1762	1520	1098.0	724.0	549.0	422.8	357.1	297.1	246.0	133.4	108.0	62.40	30.83	25.80	13.38
1.85	2001	1897	1729	1568	1368	1057.9	693.0	525.0	385.7	340.0	275.7	232.3	129.1	106.4	61.50	30.66	25.72	13.32

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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