

Tubular Gel Technology
OPzV Series

6 OPzV 300

2V300Ah(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	145mm	5.71inch
Width	206mm	8.11inch
Height	352.5mm	13.88inch
Total Height	385mm	15.16inch
Approx. Weight	24.7kg	54.34lbs

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

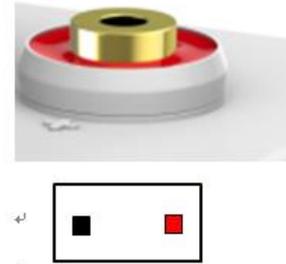
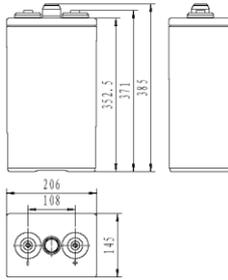
- Rated voltage: 2V (1 Cell)
- Rated capacity at 68°F(20°C)

10h rate	(30A, 1.80V)	300Ah
5h rate	(51A, 1.80V)	255Ah
1h rate	(150A, 1.80V)	150Ah
- Internal resistance: 0.60mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate: ≤3% per month 68°F(20°C)
- Maximum discharge current: 1794A(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:	60A
Temperature compensation:	-3.5mV/°C/piece
Cycle use:	2.37V/ piece
Standby use:	2.27V/ piece

Dimensions/Terminal



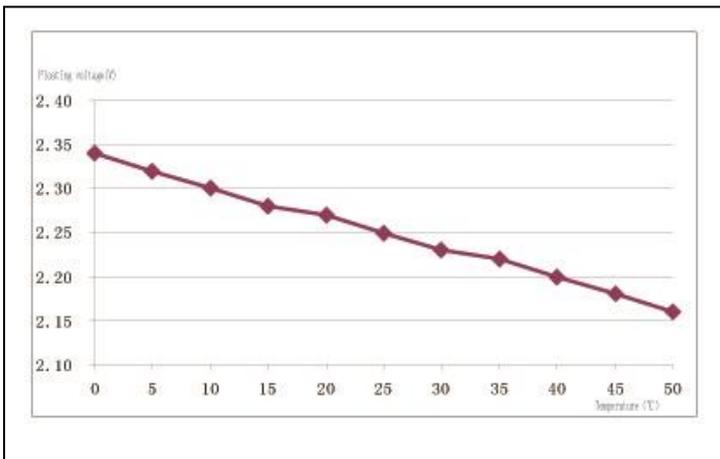
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	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

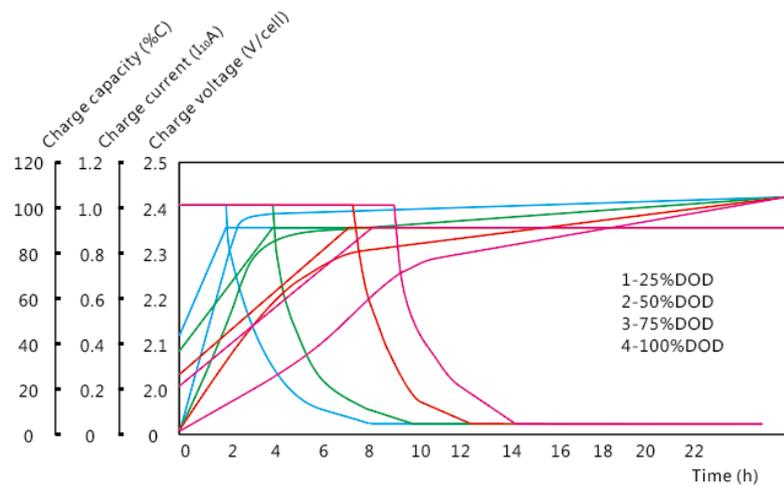
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	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

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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