

Tubular Gel Technology
OPzV Series

20 OPzV 2500

2V2500Ah(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	487mm	19.17inch
Width	212mm	8.35inch
Height	772mm	30.39inch
Total Height	804mm	31.65inch
Approx. Weight	181.0kg	398.2lbs

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 (250A, 1.80V)	2500Ah
5h rate (425A, 1.80V)	2125Ah
1h rate (1250A, 1.80V)	1250Ah
- Internal resistance:

0.17mΩ when fully charged at 68°F (20°C)
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- Average self-discharge rate:

≤3% per month 68°F (20°C)

- Maximum discharge current:

9320A(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:500A
Temperature compensation: -3.5mV/°C/piece
Cycle use: 2.37V/ piece
Standby use: 2.27V/ piece

