

OPzV Tubular-Gel Battery

2V600AH

FEATURES

- Low self-discharge and long shelf life
- Non-Spillable construction
- Safety valve installation for explosion proof
- Exceptional deep discharge recovery performance
- 99.7% pure lead calcium grids and A recognized Component of U.L

APPLICATION

- Photovoltaic system
- Telecommunications
- Emergency Power System
- Power plant and power transformer system
- Control Equipment



SPECIFICATIONS

Nominal Voltage	2V
Nominal Capacity	600Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	49.0Kg(108.027lbs)
Terminals	M8 Female Large Size Copper Post
Internal Resistance	≤0.33mΩ (Fully Charged)
Max. Discharge Current	6000A (3 sec)
Max. Charge Current	150A
Operating Temperature Range	Charge: -20°C~50°C (-4°F~122°F) Discharge: -40°C~55°C (-40°F~131°F) Storage: -20°C~40°C (-4°F~104°F)
Self Discharge	About 2.0% of capacity declined per month at (25°C)

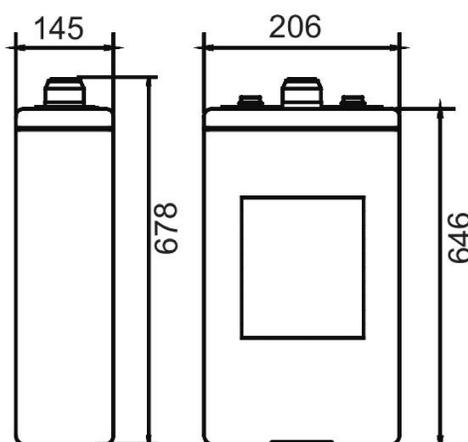


DIMENSION(mm/inch)

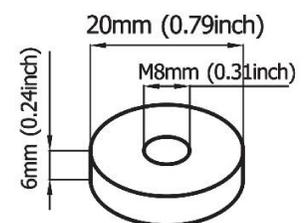
OUTER DIMENSIONS

TERMINAL TYPE

- **Length**
145±2.0mm (5.80±0.08inch)
- **Width**
206±2.0mm (8.24±0.08inch)
- **Container Height**
646±2.0mm (25.84±0.08inch)
- **Total Height**
678±2.0mm (27.12±0.08inch)



Terminal



[M8 BOLT]

Terminal Hardware Initial Torque:13(5.5Nm±5%)

Constant power discharge characteristics at 25°C/77°F Unit:W

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	5HR	10HR	20HR
1.70V	1096.5	892.5	691.5	406.5	320.3	219.8	118.5	67.3
1.75V	1009.5	856.5	663.0	396.0	312.8	216.8	117.0	66.2
1.80V	894.0	805.5	584.3	385.5	301.5	213.0	115.5	66.2
1.90V	664.5	599.3	476.3	354.0	264.8	192.0	103.5	61.2

Charge Voltage	
Cycle use	2.35-2.40V (±4mV)
Max Current	150A

Constant current discharge characteristics at 25°C/77°F Unit:A

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	5HR	10HR	20HR
1.70V	636.0	516.0	351.0	214.5	159.0	106.5	61.5	34.8
1.75V	564.0	481.5	336.0	208.5	156.0	105.8	60.8	34.6
1.80V	492.0	420.0	312.0	199.5	150.0	104.3	60.0	34.4
1.90V	312.0	294.0	234.0	165.0	129.0	93.0	53.3	31.6

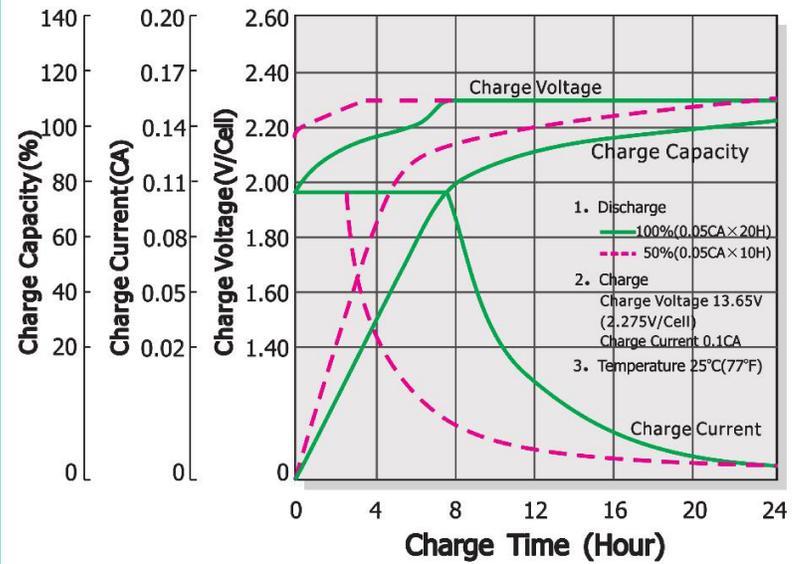
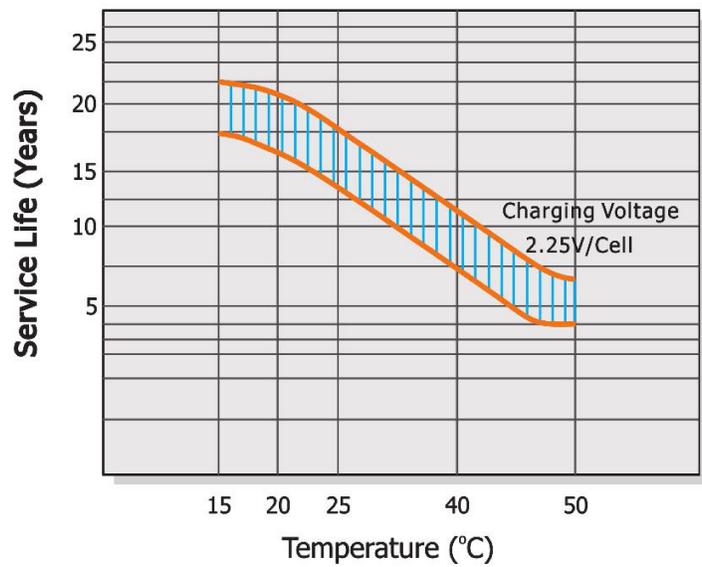
Float Use
2.25-2.30V (±3mV)

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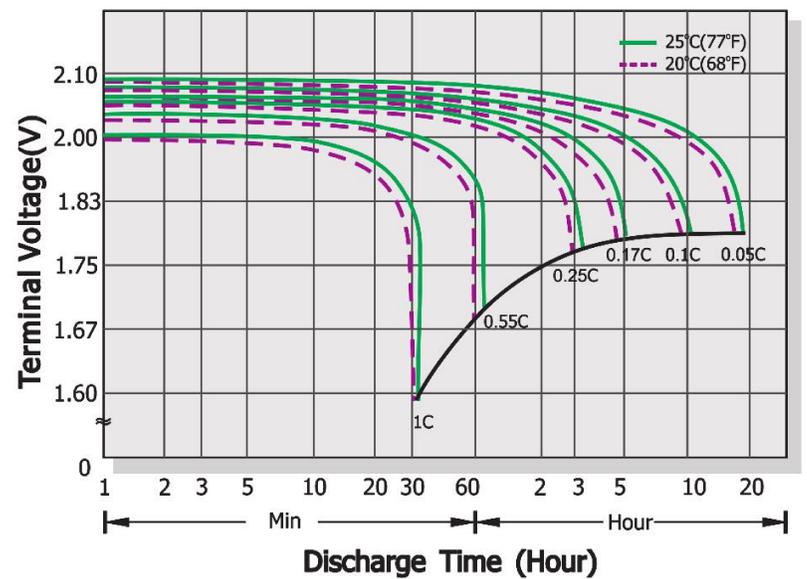
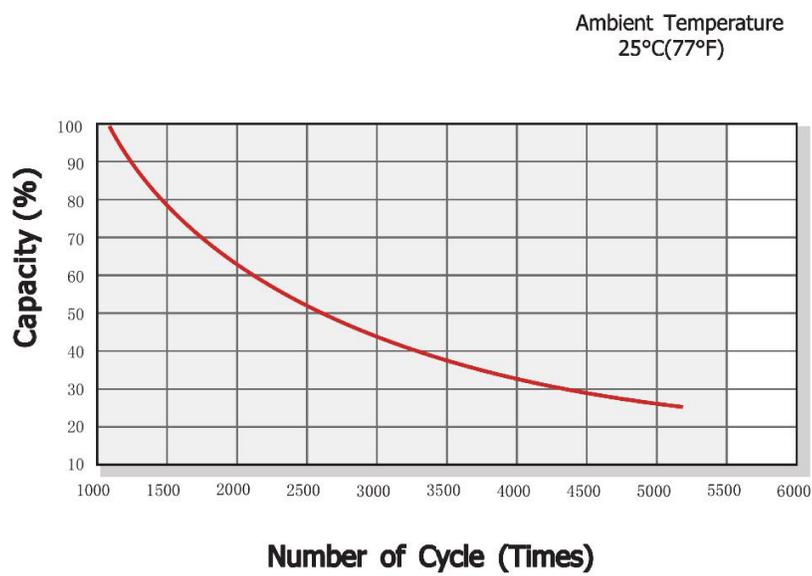
Trickle(or Float) Service Life

Charge Characteristic



Cycle Service Life

Discharge Characteristic



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	55%	75%	85%	88%	90%	98%	100%	102%	104%	105%
	2V	65%	80%	88%	90%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%