

OPzV Tubular-Gel Battery

7 OPzV 490

2V500AH



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	500Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	41.0Kg (90.39lbs.)
Terminals	M8 Female Large Size Copper Post
Internal Resistance	≤0.50mΩ (Fully Charged)
Max. Discharge Current	5000A (3 sec)
Max. Charge Current	125A
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)

ISO 9001

- IEC 60896-21/22
- DIN 40742
- YD/T 1360-2005

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

207±2.0mm (8.15±0.08inch)

Width

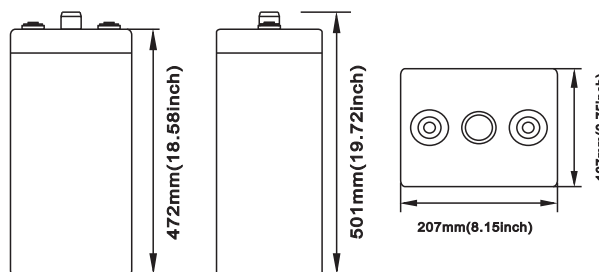
167±2.0mm (6.75±0.08inch)

Container Height

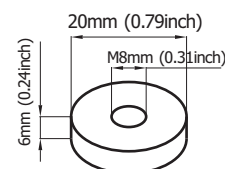
472±2.0mm (18.58±0.08inch)

Total Height

501±2.0mm (19.72±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	Charge Voltage	
									Cycle use	2.35-2.40V (±4mV)
1.70V	936	762	511	343	231	158.0	95.3	57.0	125A	
1.75V	825	711	477	333	230	156.0	95.0	56.4		
1.80V	685	634	467	301	225	153.0	93.6	56.0		
1.90V	520	500	388	247	180	127.0	85.8	50.7		

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

F. V/Time	15MIN	30MIN	1HR	2HR	3HR	5HR	10HR	20HR	Float Use
									2.25-2.30V (±3mV)
1.70V	572	437	283	175	129	90.0	52.0	30.4	
1.75V	515	406	274	171	127	88.2	51.8	30.3	
1.80V	448	371	259	164	123	86.5	50.0	30.3	
1.90V	292	273	203	137	106	74.5	46.0	27.2	

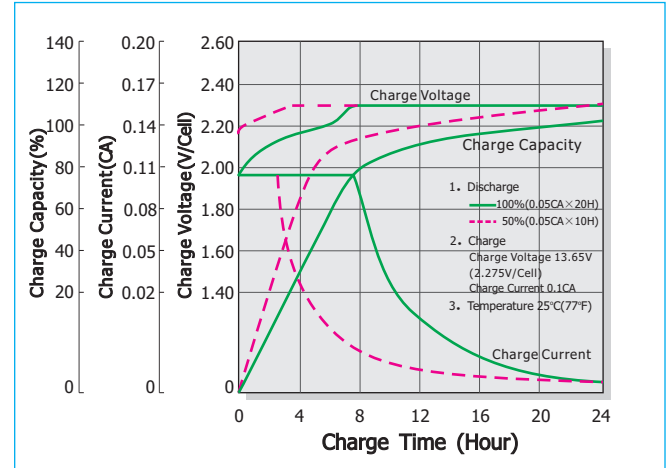
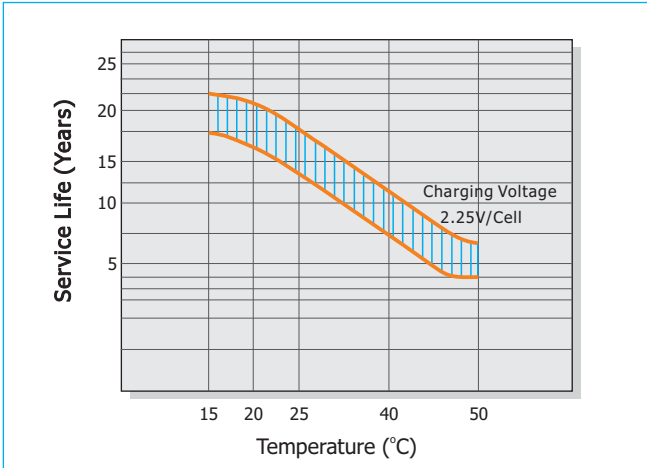
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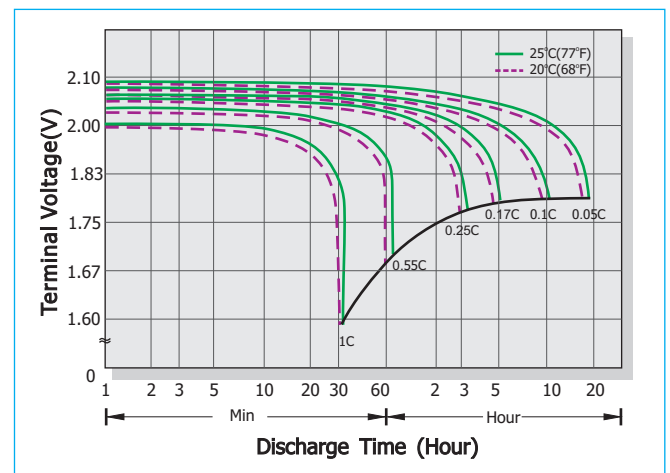
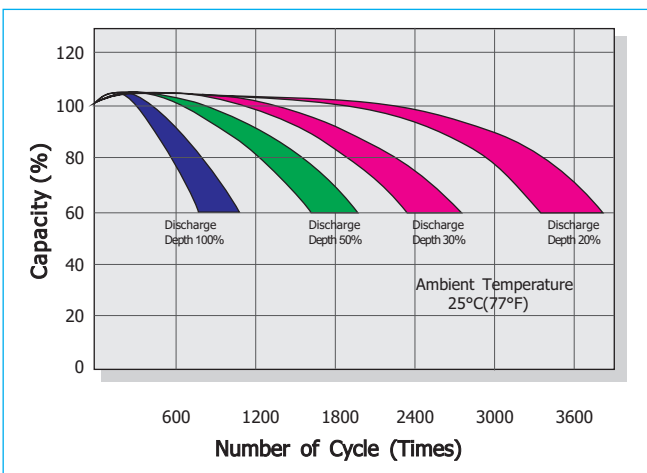
Trickle(or Float) Service Life

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%

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