



Oliter design each battery by heart

OPzV Tubular-Gel Battery

2V1200AH

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	1200Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	9394Kg(209.43lbs)
Terminals	M8 Female Large Size Copper Post
Internal Resistance	$\leq 0.33\text{m}\Omega$ (Fully Charged)
Max. Discharge Current	24000A (3 sec)
Max. Charge Current	300A
Operating Temperature Range	Charge: $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ($-4^{\circ}\text{F}\sim 122^{\circ}\text{F}$) Discharge: $-40^{\circ}\text{C}\sim 55^{\circ}\text{C}$ ($-40^{\circ}\text{F}\sim 131^{\circ}\text{F}$) Storage: $-20^{\circ}\text{C}\sim 40^{\circ}\text{C}$ ($-4^{\circ}\text{F}\sim 104^{\circ}\text{F}$)
Self Discharge	About 2.0% of capacity declined per month at (25°C)



DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

233 $\pm$ 2.0mm (9.32 $\pm$ 0.08inch)

Width

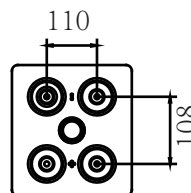
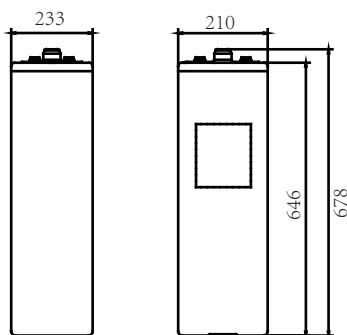
210 $\pm$ 2.0mm (8.40 $\pm$ 0.08inch)

Container Height

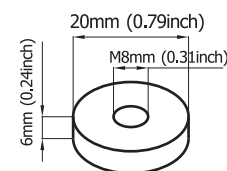
646 $\pm$ 2.0mm (25.84 $\pm$ 0.08inch)

Total Height

678 $\pm$ 2.0mm (27.12 $\pm$ 0.08inch)



Terminal



[M8 BOLT]

Terminal Hardware Initial Torque:13(5.5Nm $\pm$ 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	
1.70V	2193.0	1785.0	1383.0	813.0	640.5	439.5	237.0	134.6	Cycle use	2.35-2.40V ($\pm 4\text{mV}$)
1.75V	2019.0	1713.0	1326.0	792.0	625.5	433.5	234.0	132.5		
1.80V	1788.0	1611.0	1168.5	771.0	603.0	426.0	231.0	132.3	Max Current	300A
1.90V	1329.0	1198.5	952.5	708.0	529.5	384.0	207.0	122.4		

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

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	5HR	10HR	20HR	Float Use	
1.70V	1272.0	1032.0	702.0	429.0	318.0	213.0	123.0	69.6	2.25-2.30V ($\pm 3\text{mV}$)	
1.75V	1128.0	963.0	672.0	417.0	312.0	211.5	121.5	69.2		
1.80V	984.0	840.0	624.0	399.0	300.0	208.5	120.0	68.9		
1.90V	624.0	588.0	468.0	330.0	258.0	186.0	106.5	63.2		

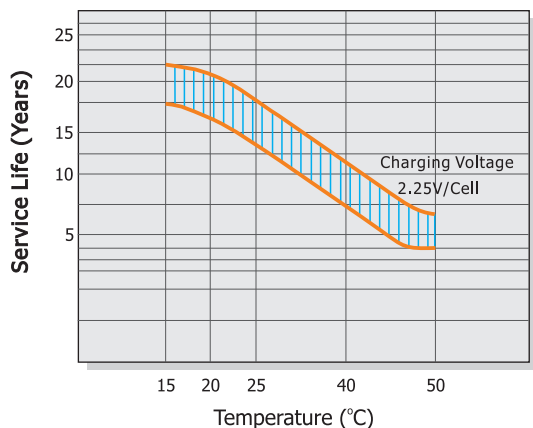


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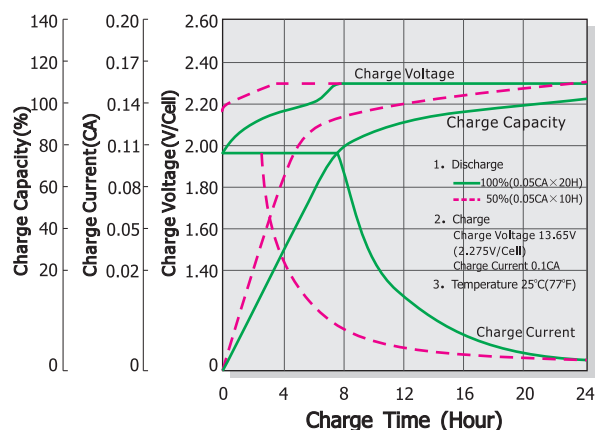
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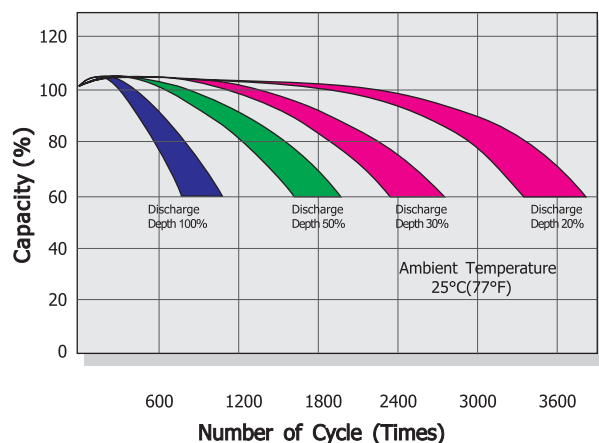
Trickle(or Float) Service Life



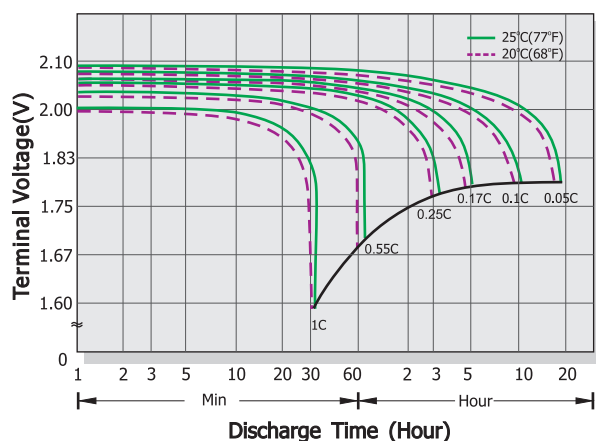
Charge Characteristic



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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