



Oliter design each battery by heart

OPzV Tubular-Gel Battery

2V800AH

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	800Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	61.5Kg
Terminals	M8 Female Large Size Copper Post
Internal Resistance	$\leq 0.33m\Omega$ (Fully Charged)
Max. Discharge Current	2400A (3min)
Max. Charge Current	200A
Operating Temperature Range	Charge: $-20^{\circ}C \sim 50^{\circ}C$ ($-4^{\circ}F \sim 122^{\circ}F$) Discharge: $-40^{\circ}C \sim 55^{\circ}C$ ($-40^{\circ}F \sim 131^{\circ}F$) Storage: $-20^{\circ}C \sim 40^{\circ}C$ ($-4^{\circ}F \sim 104^{\circ}F$)
Self Discharge	About 2.0% of capacity declined per month at ($25^{\circ}C$)



DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

211 $\pm$ 2.0mm (8.31 $\pm$ 0.08inch)

Width

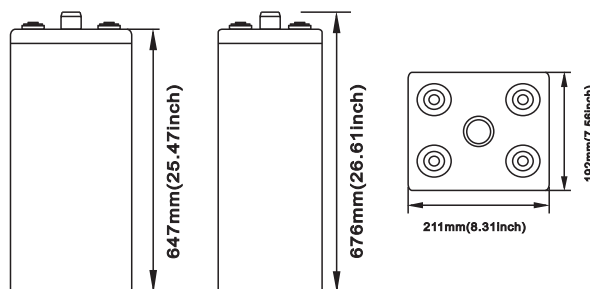
192 $\pm$ 2.0mm (7.56 $\pm$ 0.08inch)

Container Height

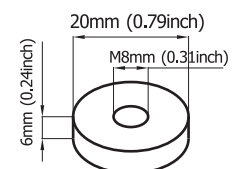
647 $\pm$ 2.0mm (25.47 $\pm$ 0.08inch)

Total Height

676 $\pm$ 2.0mm (26.61 $\pm$ 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	1462	1190	922	542	427	293	158	89.7	Cycle use	2.35-2.40V ($\pm 4mV$)
1.75V	1346	1142	884	528	417	289	156	88.3		
1.80V	1192	1074	779	514	402	284	154	88.2	Max Current	200A
1.90V	886	799	635	472	353	256	138	81.6		

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	848	688	468	286	212	142	82.0	46.4	2.25-2.30V ($\pm 3mV$)	
1.75V	752	624	448	278	208	141	81.0	46.1		
1.80V	626	560	416	266	200	139	80.0	45.9		
1.90V	416	392	312	220	172	124	71.5	42.1		

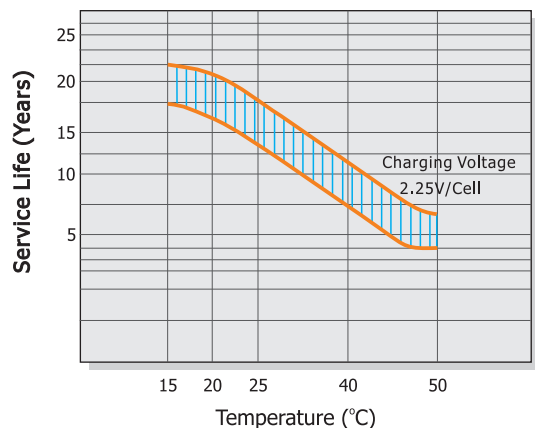


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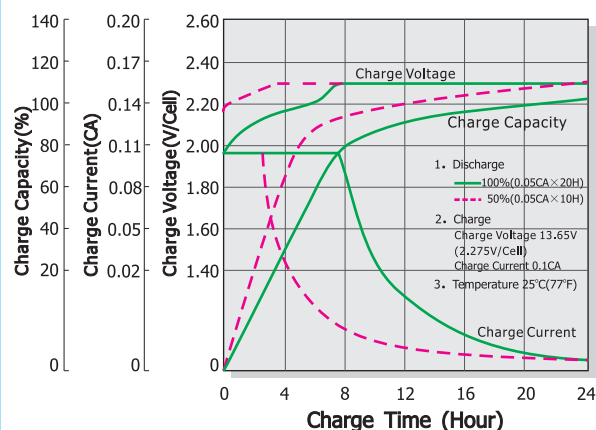
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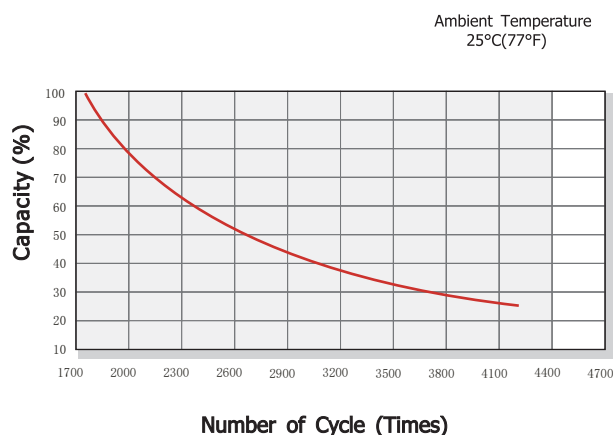
Trickle(or Float) Service Life



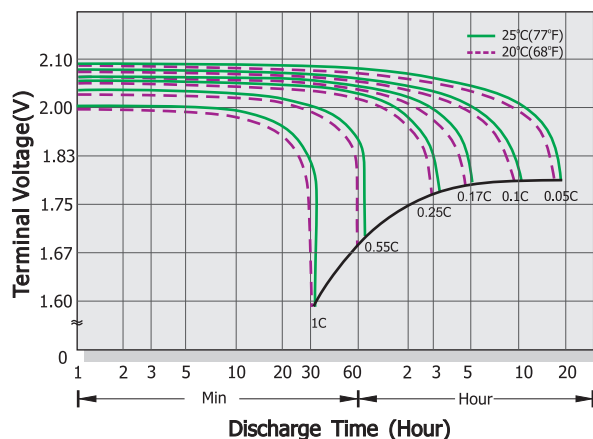
Charge Characteristic



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%