

# 16 OPzV2000 (2V2000AH)

## Applications

- ◆ Telecom application (indoor or outdoor BTS)
- ◆ Solar System
- ◆ Wind system
- ◆ Hybrid solution



## Design

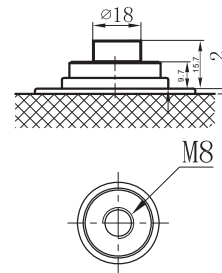
- ◆ Positive plate: Tubular plate, adopts multi-component alloy frame
- ◆ negative plate: special radiated structure
- ◆ Electrolyte: sulphuric acid fixed as GEL by fumed silica
- ◆ Separator: special microporous PVC-SiO<sub>2</sub> separator
- ◆ Safety valve: valve with flame arrestor

## Features

- ◆ Long life: 20 years design life
- ◆ Good deep discharge resilience performance
- ◆ Special plate design, long cycle lifetime
- ◆ High thermal capacity, reduce the risk of thermal out of control and drying hard, can be used in bad environment
- ◆ Flame retardant container UL94-V0

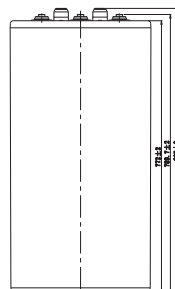
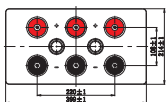
### Terminal

Terminal Model:  
Unit: mm



### Layout

Unit: mm



## Tubular GEL Battery-OPzV Series

### Specification

Nominal Voltage	2V	
Rated Capacity (Ah)	2000.0 AH/200.0A	(10hr, 1.80V/cell, 25°C)
	1506.0 AH/502.0A	(3hr, 1.75V/cell, 25°C)
	1131.0 AH/1131.0A	(1hr, 1.60V/cell, 25°C)
Dimension	Length	399 ± 2mm
	Width	214 ± 2mm
	Container Height	772 ± 2mm
	Total Height	807 ± 2mm
Approx Weight	Approx 155.0 kg	
Terminal	Material: Copper	
Container Material	ABS	
Max. Discharge Current	16000A (5s)	
Internal Resistance	Approx 0.25mΩ	
Operating Temp. Range	Discharge: -20~55°C Charge: 0~40°C Storage: -20~50°C	
Capacity Affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Cycle Use	Initial Charging Current less than 500.0A.	
	Voltage: 2.4V at 25°C	Temp. coefficient -5mV/°C
Standby Use	Equalization voltage: 2.35V at 25°C	Temp. coefficient -3mV/°C
	Float voltage: 2.25V at 25°C	Temp. coefficient -3mV/°C
Self Discharge	<2% per month @ 25°C.	



ISO9001



ISO14001

### Performance

#### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	1167	1139	1041	888	581	452	311	218	187
1.80V/cell	1436	1379	1214	1000	638	491	336	234	200
1.75V/cell	1698	1543	1293	1041	656	502	342	237	203
1.70V/cell	1906	1684	1369	1081	673	513	348	240	205
1.65V/cell	2047	1778	1424	1112	687	522	353	243	208
1.60V/cell	2142	1841	1460	1131	696	528	356	245	209

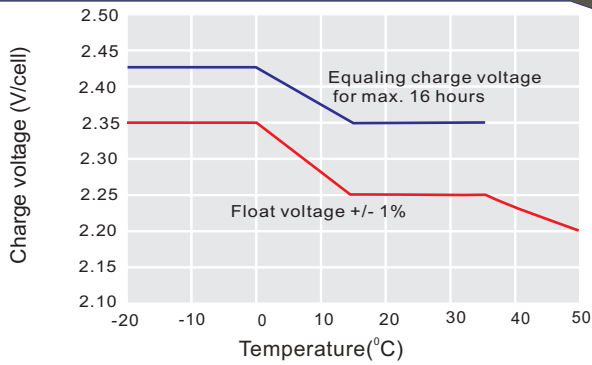
#### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	2171	2140	1990	1718	1129	882	612	432	373
1.80V/cell	2624	2554	2296	1922	1234	955	658	462	397
1.75V/cell	3051	2819	2422	1987	1262	973	668	469	403
1.70V/cell	3363	3032	2538	2051	1288	989	676	474	407
1.65V/cell	3547	3154	2613	2095	1309	1002	684	478	410
1.60V/cell	3640	3218	2653	2118	1319	1010	689	481	413

**Tubular GEL Battery-OPzV Series**

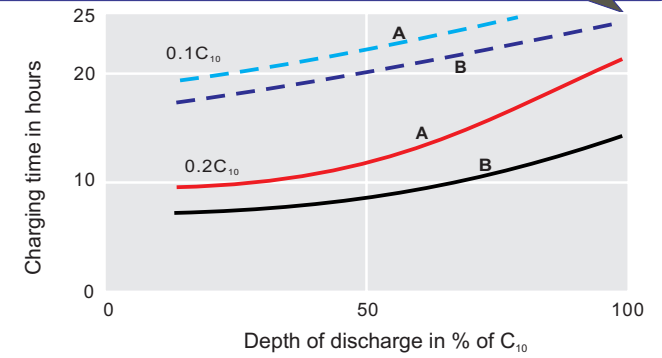
**Characteristic Curve**

**Discharge Characteristics**



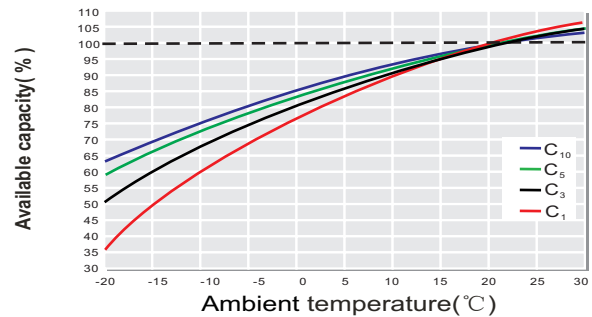
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for acotinuously different battery ambient temperature.

**Charging Characteristics**

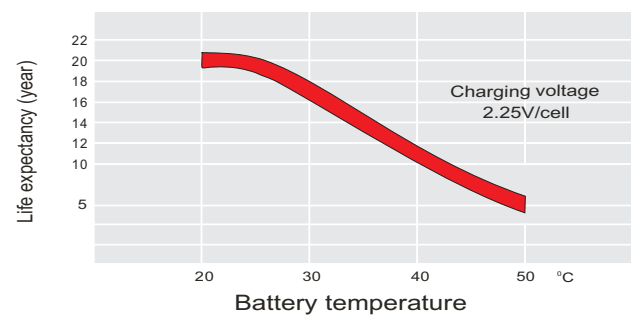


Charge voltage:  
A—2.25 V/cell      B—2.40 V/cell  
--- State of charge 100 %      — State of charge 90 %

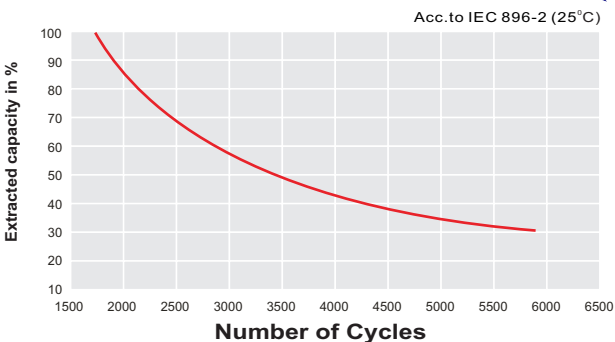
**Temperature Effects in Relation to Battery Capacity**



**Effect of Temperature on Long Term Float Life**



**Cycle Life in Relation to Depth of Discharge**



**General Relation of Capacity VS. Storage Time**

