

24 OPzV3000 (2V3000AH)

Applications

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



Design

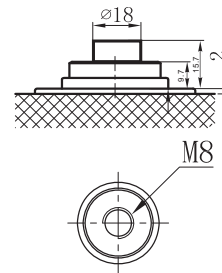
- ◆ Positive plate: Tubular plate, adopts multi-component alloy frame
- ◆ negative plate: special radiated structure
- ◆ Electrolyte: sulphuric acid fixed as GEL by fumed silica
- ◆ Separator: special microporous PVC-SiO₂ separator
- ◆ Safety valve: valve with flame arrestor

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

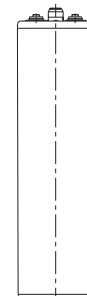
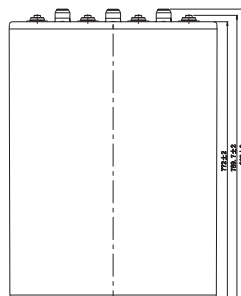
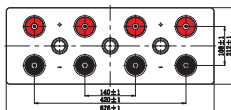
Terminal

Terminal Model:
Unit: mm



Layout

Unit: mm



Tubular GEL Battery-OPzV Series

Specification

Nominal Voltage	2V	
Rated Capacity (Ah)	3000.0 AH/300.0A	(10hr, 1.80V/cell, 25°C)
	2262.0 AH/754.0A	(3hr, 1.75V/cell, 25°C)
	1697.0 AH/1697.0A	(1hr, 1.60V/cell, 25°C)
Dimension	Length	576 ± 2mm
	Width	212 ± 2mm
	Container Height	772 ± 2mm
	Total Height	807 ± 2mm
Approx Weight	Approx 232.0 kg	
Terminal	Material: Copper	
Container Material	ABS	
Max. Discharge Current	24000A (5s)	
Internal Resistance	Approx 0.18mΩ	
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 750.0A.	
	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	1751	1708	1562	1332	871	677	467	327	281
1.80V/cell	2154	2068	1820	1500	957	737	504	350	300
1.75V/cell	2548	2314	1940	1561	984	754	513	356	305
1.70V/cell	2859	2526	2054	1621	1009	769	521	361	308
1.65V/cell	3071	2667	2136	1668	1031	783	529	365	311
1.60V/cell	3212	2762	2191	1697	1044	793	535	368	314

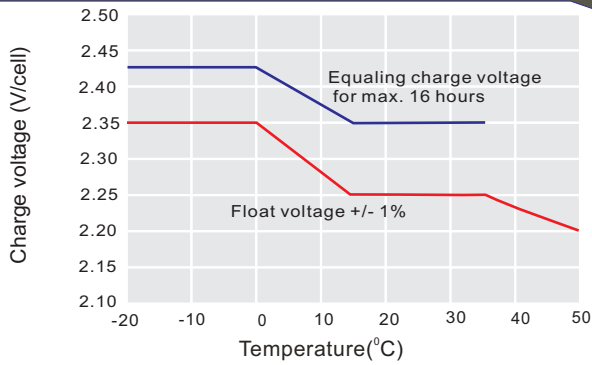
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	3257	3210	2985	2577	1694	1323	918	648	559
1.80V/cell	3936	3831	3444	2883	1852	1433	987	693	596
1.75V/cell	4576	4228	3634	2981	1893	1460	1002	703	604
1.70V/cell	5045	4548	3807	3076	1932	1483	1015	710	610
1.65V/cell	5320	4731	3920	3143	1963	1504	1026	717	615
1.60V/cell	5460	4828	3979	3177	1979	1515	1033	721	619

Tubular GEL Battery-OPzV Series

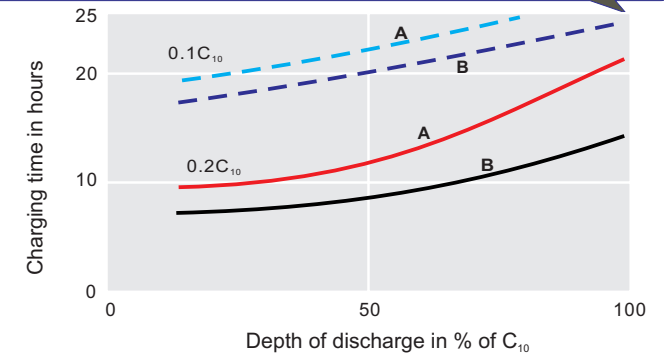
Characteristic Curve

Discharge Characteristics



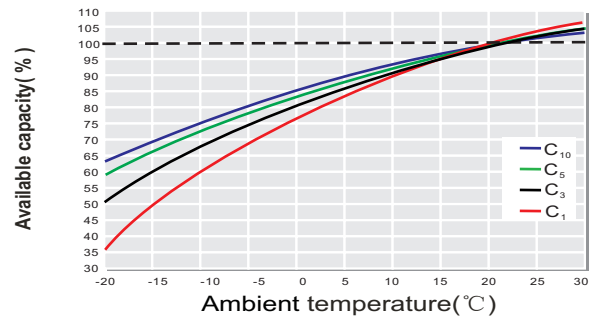
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for accontinuously different battery ambient temperature.

Charging Characteristics

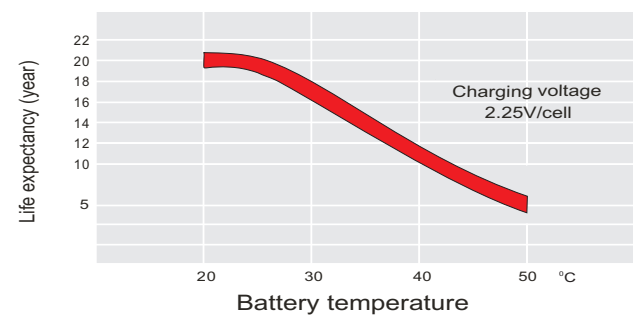


Charge voltage:
A—2.25 V/cell B—2.40 V/cell
— State of charge 100 % — State of charge 90 %

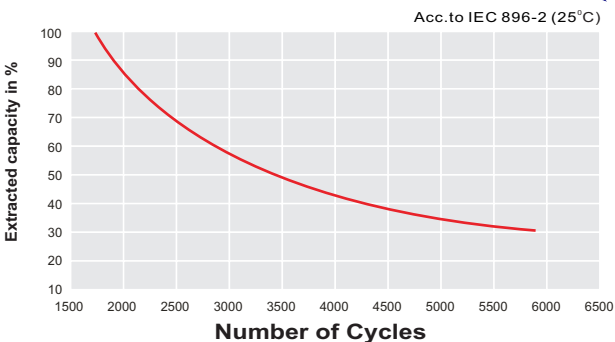
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

