

# 20 OPzV2500 (2V2500AH)

## 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

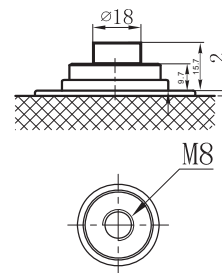
## Features

- ◆ 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

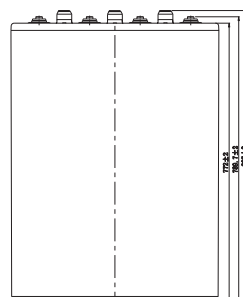
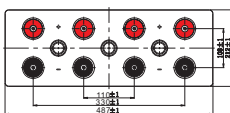
Terminal Model:

Unit: mm



### Layout

Unit: mm



## Tubular GEL Battery-OPzV Series

### Specification

Nominal Voltage	2V	
Rated Capacity (Ah)	2500.0 AH/250.0A	(10hr, 1.80V/cell, 25°C)
	1884.0 AH/628.0A	(3hr, 1.75V/cell, 25°C)
	1414.0 AH/1414.0A	(1hr, 1.60V/cell, 25°C)
Dimension	Length	487 ± 2mm
	Width	212 ± 2mm
	Container Height	772 ± 2mm
	Total Height	807 ± 2mm
	Approx Weight	Approx 196.0 kg
Terminal	Material: Copper	
Container Material	ABS	
Max. Discharge Current	20000A (5s)	
Internal Resistance	Approx 0.20mΩ	
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 625.0A.	
	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	1459	1424	1302	1110	726	565	389	273	234
1.80V/cell	1795	1723	1517	1250	798	614	420	292	250
1.75V/cell	2123	1929	1617	1301	820	628	428	297	254
1.70V/cell	2383	2105	1711	1351	841	641	434	301	257
1.65V/cell	2559	2222	1780	1390	859	653	441	304	259
1.60V/cell	2677	2301	1826	1414	870	661	446	307	261

#### 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	2714	2675	2487	2147	1412	1102	765	540	466
1.80V/cell	3280	3193	2870	2403	1543	1194	822	577	496
1.75V/cell	3814	3523	3028	2484	1577	1216	835	586	504
1.70V/cell	4204	3790	3172	2564	1610	1236	846	592	509
1.65V/cell	4434	3942	3267	2619	1636	1253	855	598	513
1.60V/cell	4550	4023	3316	2647	1649	1262	861	601	516

**Tubular GEL Battery-OPzV Series**

**Characteristic Curve**

