

8 OPzV800 (2V800AH)

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

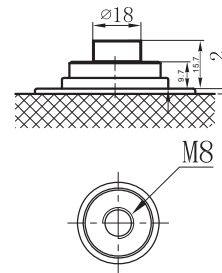
Features

- ◆ 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

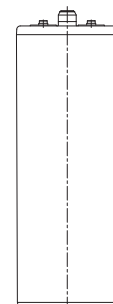
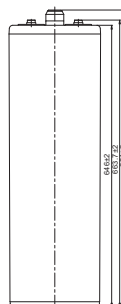
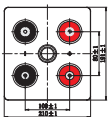
Terminal Model:

Unit: mm



Layout

Unit: mm



Tubular GEL Battery-OPzV Series

Specification

Nominal Voltage	2V	
Rated Capacity (Ah)	800.0 AH/80.0A	(10hr, 1.80V/cell, 25°C)
	609.0 AH/203.0A	(3hr, 1.75V/cell, 25°C)
	454.0 AH/454.0A	(1hr, 1.60V/cell, 25°C)
Dimension	Length	191 ± 2mm
	Width	210 ± 2mm
	Container Height	646 ± 2mm
	Total Height	681 ± 2mm
Approx Weight	Approx 64.5 kg	
Terminal	Material: Copper	
Container Material	ABS	
Max. Discharge Current	6400A (5s)	
Internal Resistance	Approx 0.5mΩ	
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 200.0A.	
	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	545	518	446	356	236	183	126	87.8	74.9
1.80V/cell	671	627	520	401	259	199	135	94.0	80.0
1.75V/cell	794	702	554	418	267	203	138	95.6	81.3
1.70V/cell	891	766	587	434	273	207	140	96.8	82.2
1.65V/cell	956	809	610	446	279	211	142	98.0	83.0
1.60V/cell	1001	838	626	454	283	214	144	98.8	83.6

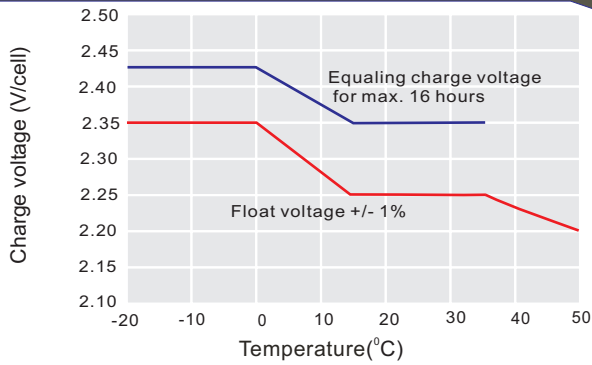
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	1014	973	853	689	459	357	247	174	149
1.80V/cell	1226	1162	984	771	502	387	265	186	159
1.75V/cell	1425	1282	1038	798	513	394	270	189	161
1.70V/cell	1571	1379	1088	823	524	400	273	191	163
1.65V/cell	1657	1435	1120	841	532	406	276	193	164
1.60V/cell	1701	1464	1137	850	536	409	278	193	165

Tubular GEL Battery-OPzV Series

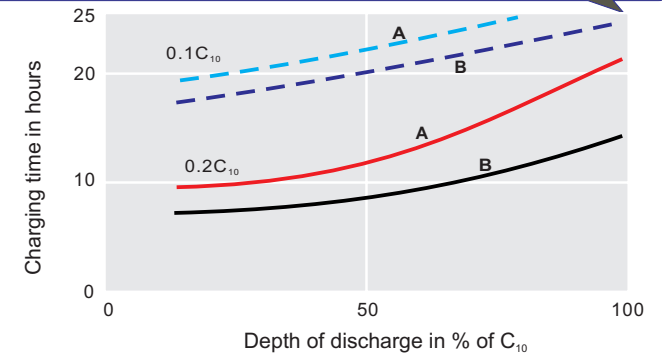
Characteristic Curve

Discharge Characteristics



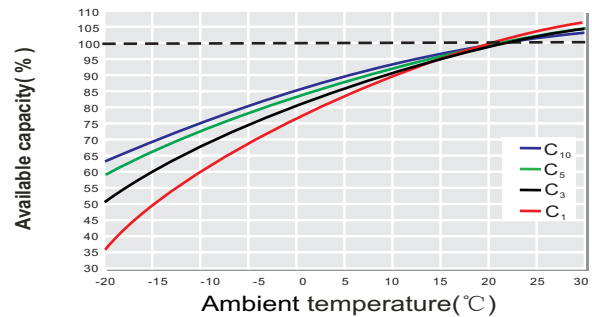
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for acontinuously different battery ambient temperature.

Charging Characteristics

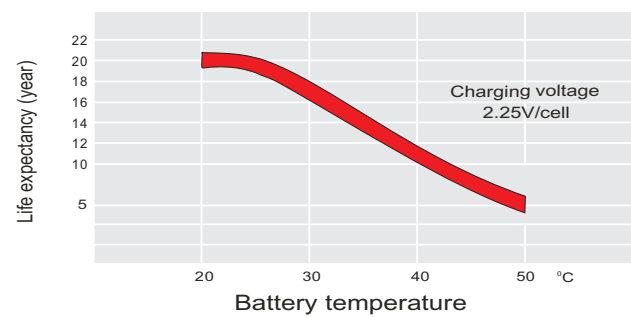


Charge voltage:
A—2.25 V/cell B—2.40 V/cell
--- State of charge 100 % — State of charge 90 %

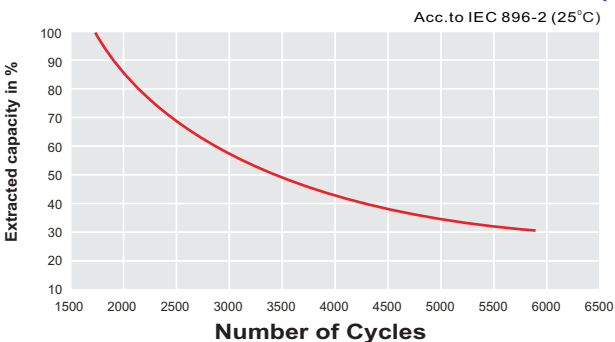
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

