



OPzV2000 (2V2000AH) Tubular GEL Battery



Specification

Nominal Voltage	2V	
Capacity	2000.0Ah@10hr to 1.80V/cell	
Dimension	Length	399±3mm (15.7 inches)
	Width	214±3mm (8.42 inches)
	Container Height	772±3mm (30.4 inches)
	Total Height (with Terminal)	807±3mm (31.8 inches)
Approx Weight	Approx 152.0 kg (335.1 lbs)	
Container Material	ABS	
Rated Capacity	2000 AH/200A	(10hr, 1.80V/cell, 20°C/68°F)
	1710 AH/342A	(5hr, 1.75V/cell, 20°C/68°F)
	1506 AH/502A	(3hr, 1.75V/cell, 20°C/68°F)
	1131 AH/1131A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	16000A (5s)	
Internal Resistance	Approx 0.25 mΩ	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°F)
	Storage	-20~50°C (-4~122°F)
Cycle Use	Initial Charging Current less than 500.0A. Voltage	
	2.40V~2.50V at 20°C(68°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	2.25V~2.30V at 20°C(68°F)Temp. Coefficient -3mV/°C	
Self-discharge	<2% pre month @ 20°C(68°F)	

Applications

- ◆ Solar energy/wind energy
- ◆ Electric power/nuclear power
- ◆ Communication
- ◆ Ship, maritime affairs
- ◆ UPS, medical facilities and emergency lighting
- ◆ Situation with high environmental protection and energy-saving
- ◆ Better safety performance and reliability
- ◆ Designed service life of 22 years

Main Technical Advantages

- ◆ Plate: positive plate adopts tubular plate which can prevent active material falling, and adopts multi-component alloy frame. have fine corrosion-resisting performance and long service life. Negative plate adopts special radiated structure.
- ◆ Separator: adopt special micro-pore PVC-SiO₂ separator from Europe AMER-SIL Company, separator have big porosity and low resistance.
- ◆ Electrolyte: adopts Germany gas silicon dioxide, electrolyte in gel state in the battery without flowing, leakage and lamination can be avoided.
- ◆ Safety valve: adopt Germany technology, constant opening and closing, accumulator case expansion, damage and electrolyte dry up can be avoided.

Constant Current Discharge (Amperes) at 20 °C (68°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) at 20 °C (68°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

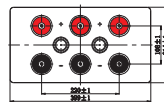
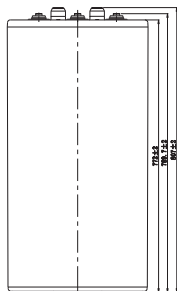
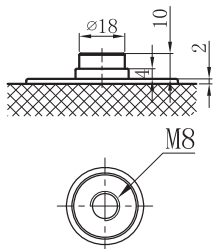
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



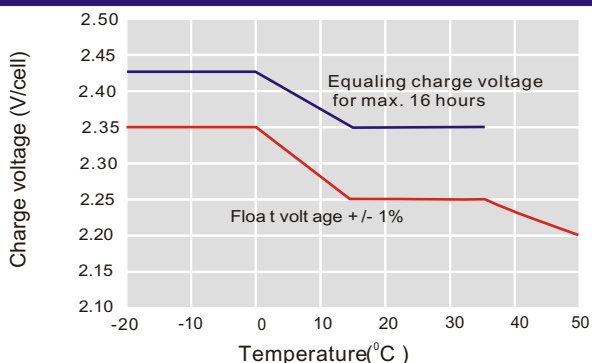
OPzV2000 (2V2000AH) Tubular GEL Battery

Dimensions

T11 Terminal

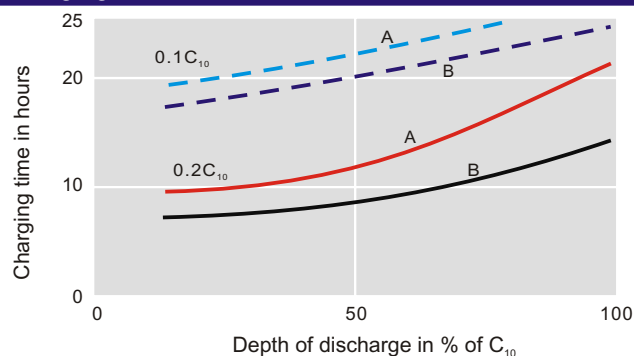


Discharge Characteristics



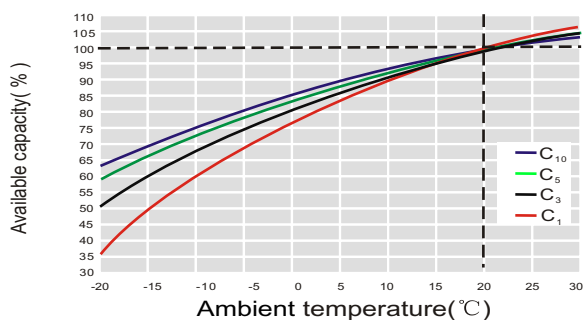
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for continuously different battery ambient temperature.

Charging Characteristics

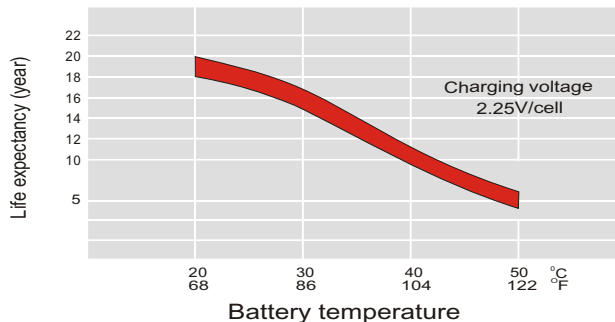


Charge voltage:
A—2.25 V/cell B—2.40 V/cell
-- State of charge 100 % — State of charge 90 %

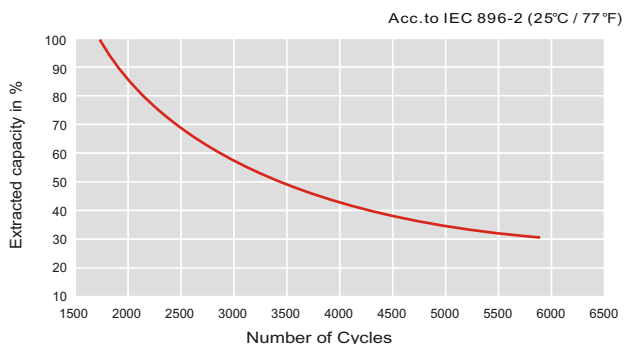
Temperature Effects in Relation to Battery Capacity



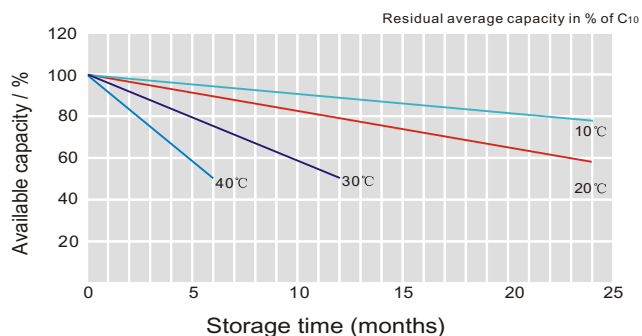
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



JYC OPzV BATTERIES

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/ specification are subject to modification without notice. Contact JYC for the latest information.