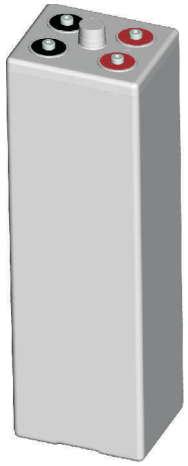
OPzV1000 (2V1000AH)

Tubular GEL Battery



Specification

Nomial Voltage	2V	
Capacity	1000.0Ah@10hr to 1.80V/cell	
Dimension	Length	233±2mm (9.17 inches)
	Width	210±3mm (8.27 inches)
	Container Height	646±3mm (25.4 inches)
	Total Height (with Terminal)	681±3mm (26.8 inches)
Approx Weight	Approx 78.5 kg (173.1 lbs)	
Container Material	ABS	
Rated Capacity	1000 AH/100.0A	(10hr,1.80V/cell,20℃/68℉)
	865 A H/173A	(5hr,1.75V/cell,20℃/68℉)
	762 AH/254A	(3hr,1.75V/cell,20℃/68℉)
	568 AH/568A	(1hr,1.60V/cell,20℃/68℉)
Max. Discharge Current	8000A (5s)	
Internal Resistance	Approx 0.45 mΩ	
Operating Temp.Range	Discharge : -20～55℃ (-4～131℉) Charge : 0～40℃ (32～104℉) Storage : -20～50℃ (-4～122℉)	
Cycle Use	Initial Charging Current less than 250.0A.Voltage 2.40V~2.50V at 20℃(68℉)Temp. Coefficient -5mV/℃	
Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.30V at 20℃(68℉)Temp. Coefficient -3mV/℃	
Self-discharge	<2% pre month @ 20℃(68℉)	

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-SiO_2 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 ℃ (68℉)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	682	648	558	445	295	228	157	110	93.7
1.80V/cell	839	784	650	502	324	249	169	118	100
1.75V/cell	992	877	693	522	333	254	173	119	102
1.70V/cell	1113	957	733	542	342	259	175	121	103
1.65V/cell	1196	1011	763	558	349	264	178	122	104
1.60V/cell	1251	1047	782	568	354	267	180	123	105

Constant Power Discharge (Watts) at 20 ℃ (68℉)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	1268	1217	1066	862	574	446	309	217	186
1.80V/cell	1532	1452	1230	964	627	483	332	232	199
1.75V/cell	1782	1603	1298	997	641	492	337	236	201
1.70V/cell	1964	1724	1360	1029	654	500	341	238	203
1.65V/cell	2071	1793	1400	1051	665	507	345	241	205
1.60V/cell	2126	1830	1421	1062	670	511	347	242	206

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

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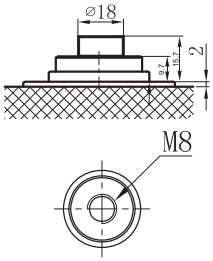
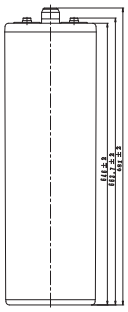
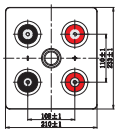
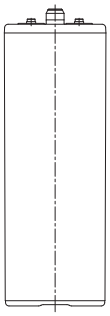
Dimensions

■ Terminal

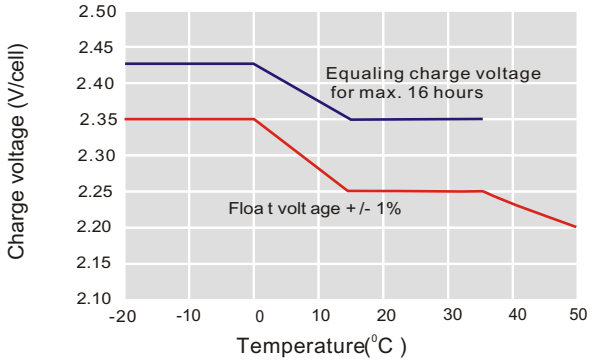






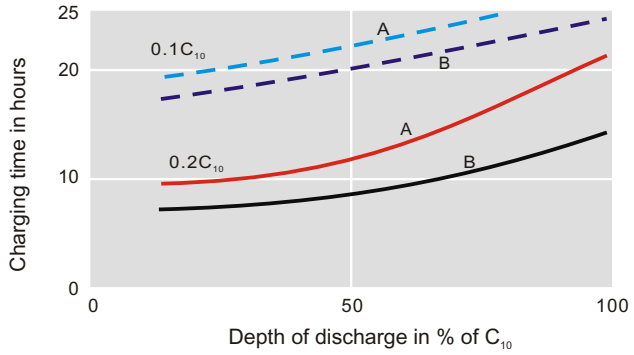


Discharge Characteristics



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

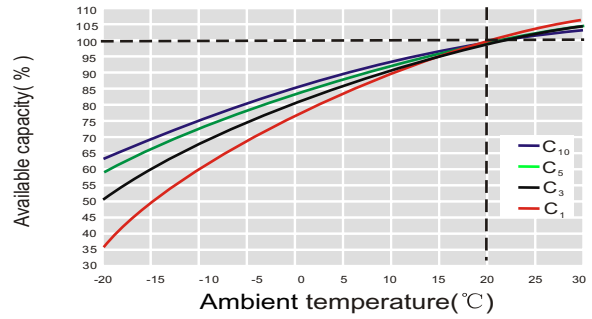


Charge voltage:

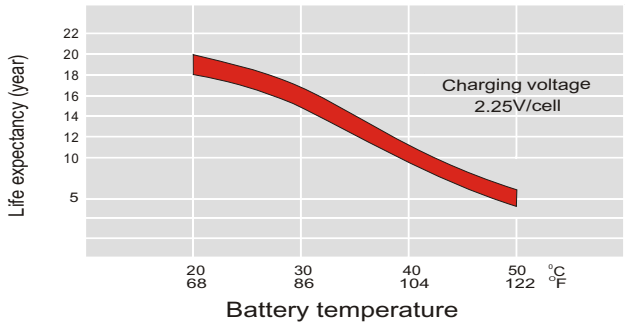
A—2.25 V/cell B— 2.40 V/cell

State of charge 100 % State of charge 90 %

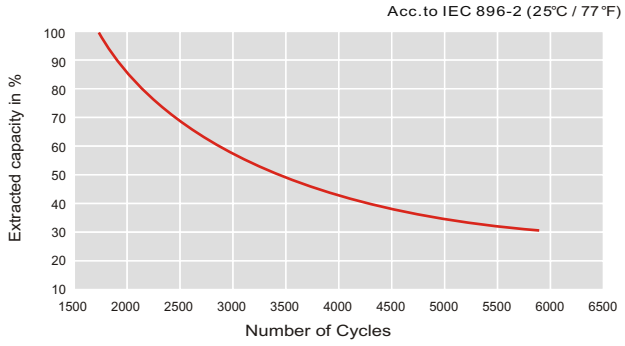
Temperature Effects in Relation to Battery Capacity



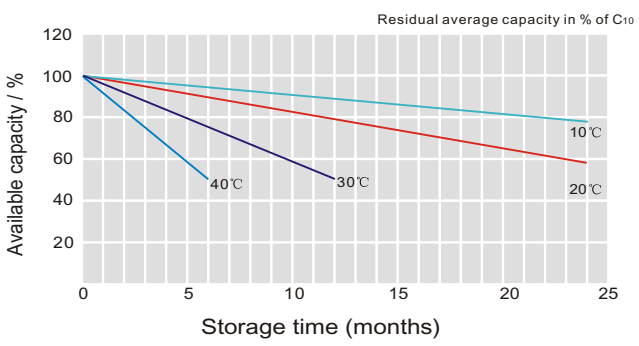
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



JYC OPvZ BATTERIES