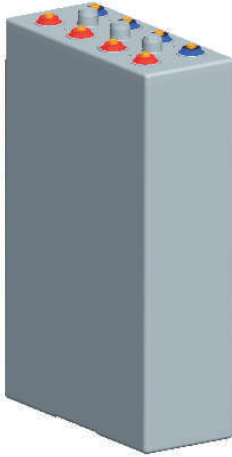




OPzV2500 (2V2500AH) Tubular GEL Battery



Specification

Nominal Voltage	2V	
Capacity	2500.0Ah@10hr to 1.80V/cell	
Dimension	Length	487±2mm (19.2 inches)
	Width	212±3mm (8.35 inches)
	Container Height	772±3mm (30.4 inches)
	Total Height (with Terminal)	807±3mm (31.8 inches)
Approx Weight	Approx 196.0 kg (432 lbs)	
Container Material	ABS	
Rated Capacity	2500 AH/250.0A	(10hr, 1.80V/cell, 20°C/68°F)
	2140 AH/428A	(5hr, 1.75V/cell, 20°C/68°F)
	1884 AH/628A	(3hr, 1.75V/cell, 20°C/68°F)
	1414 AH/1414A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	20000A (5s)	
Internal Resistance	Approx 0.20 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 625.0A. Voltage 2.40V~2.50V at 20°C(68°F)Temp. Coefficient -5mV/°C	
	No limit on Initial Charging Current Voltage 2.25V~2.30V at 20°C(68°F)Temp. Coefficient -3mV/°C	
Standby Use	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	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) at 20 °C (68°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

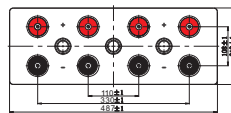
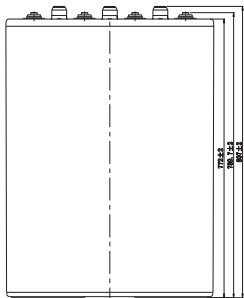
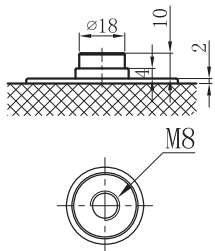
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



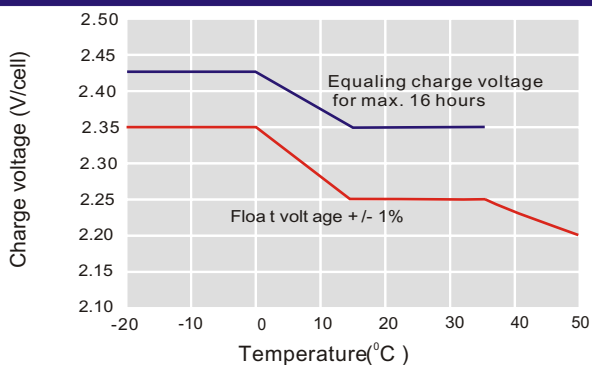
OPzV2500 (2V2500AH) Tubular GEL Battery

Dimensions

T11 Terminal

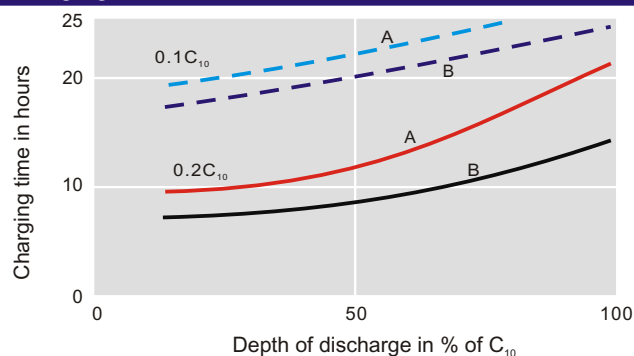


Discharge Characteristics



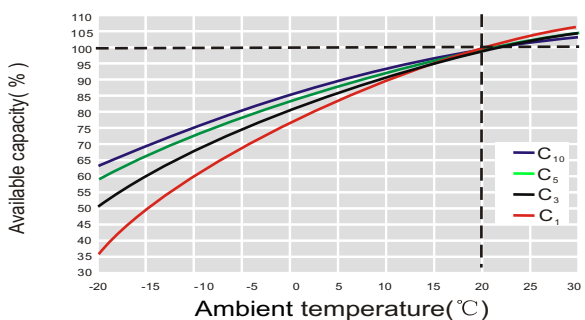
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for continuously different battery ambient temperature.

Charging Characteristics

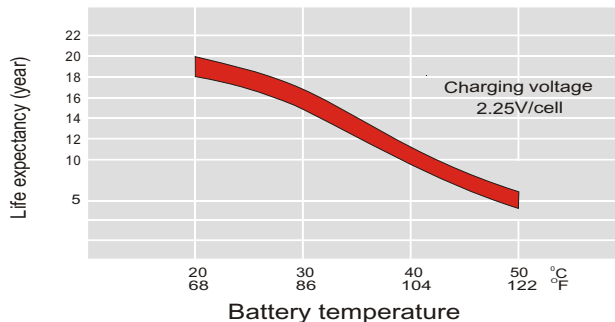


Charge voltage:
A—2.25 V/cell B—2.40 V/cell
-- State of charge 100 % — State of charge 90 %

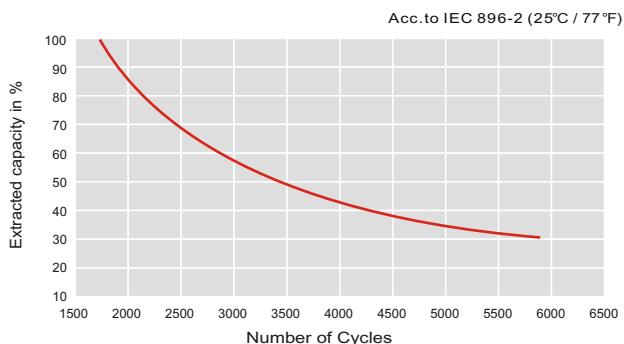
Temperature Effects in Relation to Battery Capacity



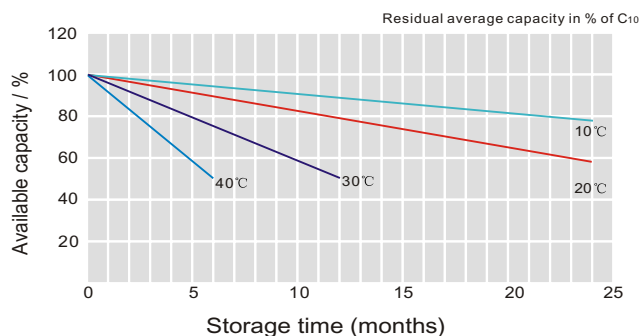
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



JYC OPzV BATTERIES

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