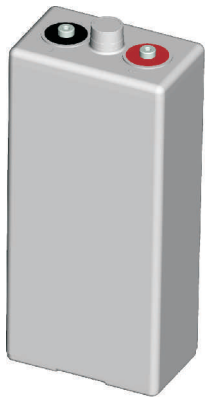
OPzV600 (2V600AH)

Tubular GEL Battery



Specification

Nomial Voltage	2V	
Capacity	600.0Ah@10hr to 1.80V/cell	
Dimension	Length	145±2mm (5.17 inches)
	Width	206±3mm (8.11 inches)
	Container Height	646±3mm (25.4 inches)
	Total Height (with Terminal)	681±3mm (26.8 inches)
Approx Weight	Approx 46.0 kg (101.4lbs)	
Container Material	ABS	
Rated Capacity	600 AH/60.0A	(10hr,1.80V/cell,20℃/68℉)
	520 A H/104A	(5hr,1.75V/cell,20℃/68℉)
	456 AH/152A	(3hr,1.75V/cell,20℃/68℉)
	341 AH/341A	(1hr,1.60V/cell,20℃/68℉)
Max. Discharge Current	4800A (5s)	
Internal Resistance	Approx 0.62mΩ	
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 150.0A.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	409	389	335	267	177	137	94.2	65.8	56.2
1.80V/cell	503	470	390	301	195	149	102	70.5	60.0
1.75V/cell	595	526	416	313	200	152	104	71.7	60.9
1.70V/cell	668	574	440	325	205	156	105	72.6	61.6
1.65V/cell	717	607	458	335	209	158	107	73.5	62.3
1.60V/cell	750	628	469	341	212	160	108	74.1	62.7

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

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	761	730	640	517	344	268	185	130	112
1.80V/cell	919	871	738	578	376	290	199	139	119
1.75V/cell	1069	962	779	598	385	295	202	141	121
1.70V/cell	1178	1034	816	617	393	300	205	143	122
1.65V/cell	1243	1076	840	631	399	304	207	144	123
1.60V/cell	1276	1098	853	637	402	306	208	145	124

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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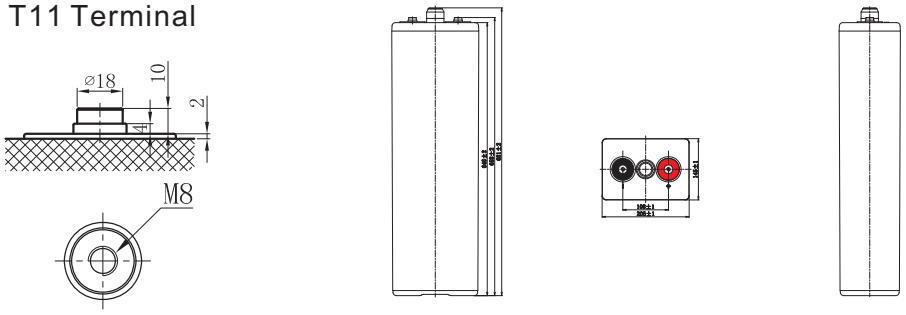
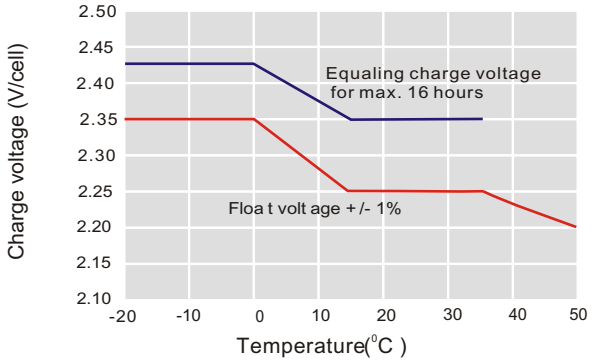
Dimensions

■ T11 Terminal

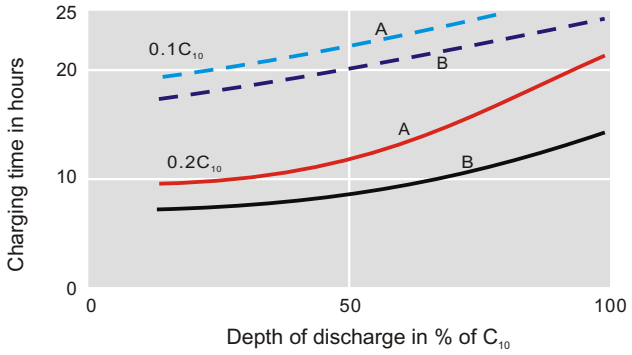


Discharge Characteristics



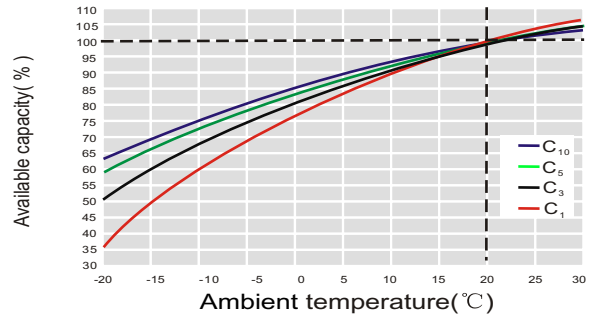
For continuous charging we recommend a voltage of 2.25 V.
The charging voltage must be compensated to the curve for
acontinuously different battery ambient temperature.

Charging Characteristics

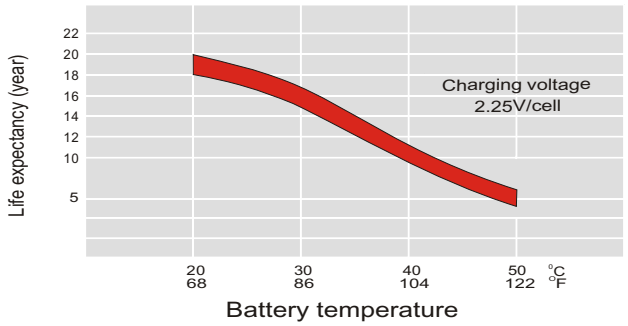


Charge voltage:
A—2.25 V/cell B— 2.40 V/cell
State of charge 100 % State of charge 90 %

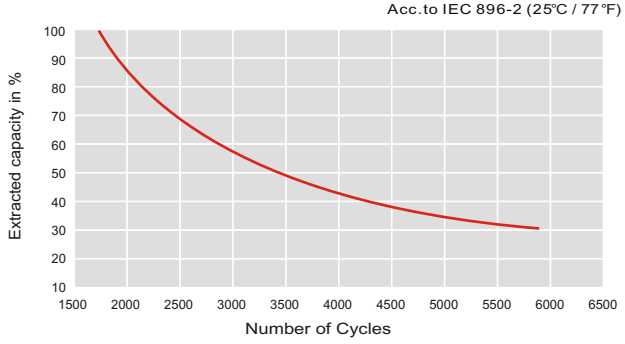
Temperature Effects in Relation to Battery Capacity



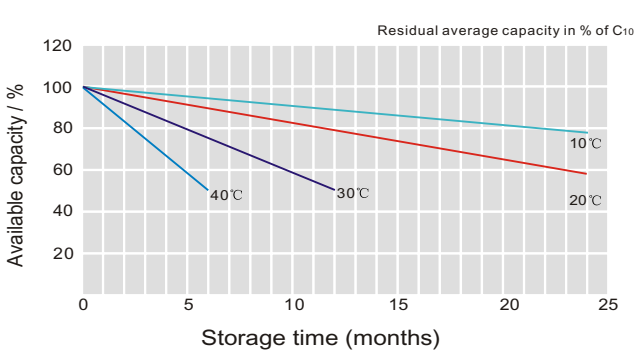
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



JYC OPvZ BATTERIES

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