

ZELUS

TUBULAR & GEL Technology Battery

OPzV200-2

2V, 200Ah/C₁₀

FEATURES

- Maintenance free.
- 20 years design life under floating application.
- No electrolyte leakage in case of cell damage.
- Robust tubular plate technology - Excellent deep discharge performance.
- Extremely low self-discharge.
- Extremely low gassing during operation.

APPLICATION

- UPS
- Telecommunication
- Solar and wind power system
- Radio and relay station
- Power generation plants



SPECIFICATIONS

Nominal Voltage	2 V
Nominal Capacity	200 Ah @ 10 hour rate F.V.(1.80V/cell)
Approx. Weight	17.4Kg(38.36lbs.)
Terminals	I3
Internal Resistance	≤0.85mΩ (Fully Charged)
Max. Charge Current	30.0 A
Self Discharge	< 2% per month (25°C)
Operating Temperature Range	-20°C~55°C(-4°F~131°F)
Container Material	ABS(UL94-HB)

WSF **RA**
ISO9001 MH19884

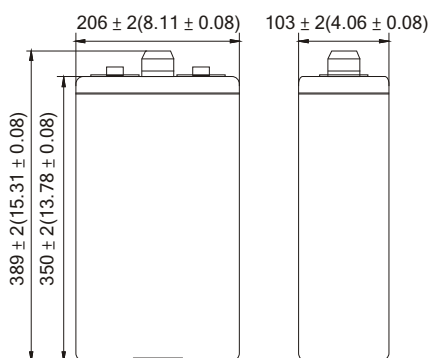
WSF **CE**
ISO14001

WSF
OHSMS

- GB/T 19638.2-2005
- IEC60896-21/22 2004

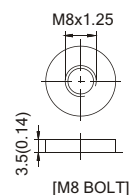
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
206±2(8.11±0.08)	103±2(4.06±0.08)	350±2(13.78±0.08)	389±2(15.31±0.08)



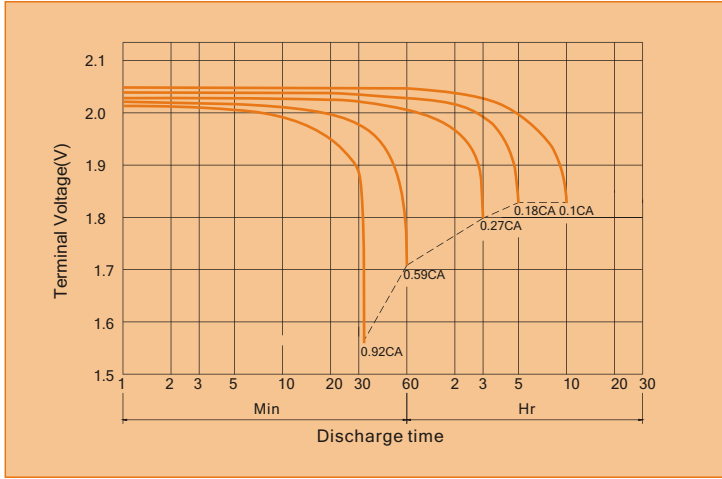
TERMINAL TYPE

- Terminal I3

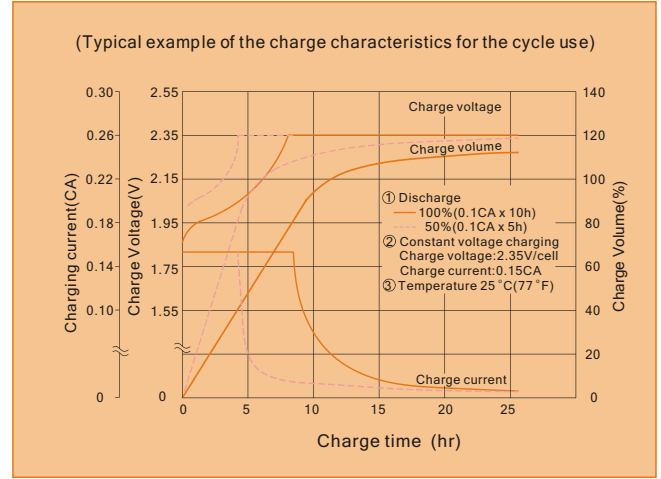


Terminal Hardware Initial Torque: I3(10.0Nm±5%)

OPzV200-2 discharge characteristics (25°C/77°F)



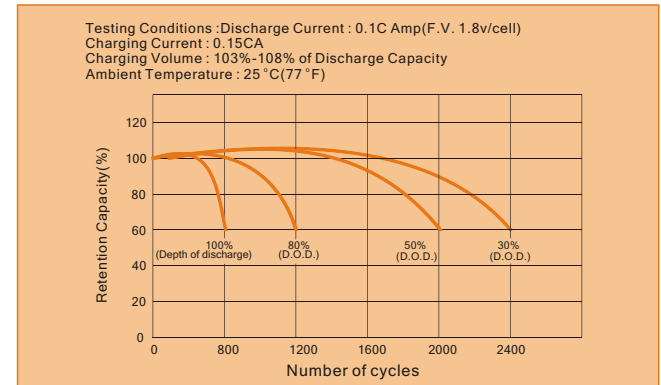
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.15CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.15	24	20	-20~55 (-4~131°F)
For cycle service		2.35~2.40	-4	0.15	20	13	

Battery Life Characteristics of Cyclic Use



Constant power discharge characteristics at 25°C/77°F Unit: W

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	16 hr	24 hr
1.90V	223	215	164	116	91	75.6	64.7	55.9	44.9	37.4	24.1	16.8
1.85V	295	253	205	133	101	81.2	69.6	60.5	49.5	39.6	26.9	18.3
1.80V	350	301	221	140	105	84.0	71.8	62.6	51.1	40.0	27.1	18.9
1.75V	397	329	233	145	107	85.4	73.5	64.3	52.2	41.3	28.0	19.3
1.70V	419	341	238	150	109	86.8	74.7	65.5	53.3	42.9	28.4	19.7
1.65V	445	355	247	153	111	88.2	75.9	66.7	53.9	43.3	28.5	19.9
1.60V	461	368	252	157	113	89.6	76.7	67.5	54.3	43.6	28.7	20.0

Constant current discharge characteristics at 25°C/77°F Unit: A

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	16 hr	24 hr	48 hr	100 hr
1.90V	111.3	108.0	82.0	58.0	45.3	38.0	32.3	27.9	22.5	38.7	12.1	8.4	4.9	2.5
1.85V	148.0	126.7	102.0	66.7	50.7	40.7	34.8	30.3	24.8	19.8	13.5	9.2	5.1	2.7
1.80V	175.3	150.7	110.7	70.0	52.7	42.0	35.9	31.3	25.5	20.0	13.6	9.5	5.2	2.8
1.75V	198.7	164.7	116.0	72.7	53.3	42.7	36.7	32.1	26.1	20.7	14.0	9.7	5.3	2.9
1.70V	209.3	170.7	119.3	74.7	54.7	43.3	37.4	32.7	26.7	21.5	14.2	9.9	5.3	2.9
1.65V	222.7	178.0	123.3	76.0	55.3	44.0	37.9	33.3	26.9	21.7	14.3	9.9	5.4	3.0
1.60V	230.0	184.0	126.0	78.7	56.7	44.7	38.3	33.7	27.1	21.8	14.3	10.0	5.5	3.1

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.
For operation, please refer to the instruction from technical manual.

TriAl A/0 REV. Feb. 2015

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