

# ZELUS

## TUBULAR & GEL Technology Battery

# OPzV300-2

### 2V, 300Ah/C<sub>10</sub>

### 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	300 Ah @ 10 hour rate F.V.(1.80V/cell)
Approx. Weight	26.5Kg(28.4lbs.)
Terminals	I3
Internal Resistance	≤0.55mΩ (Fully Charged )
Max. Charge Current	45.0 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** **ISO9001** MH19884

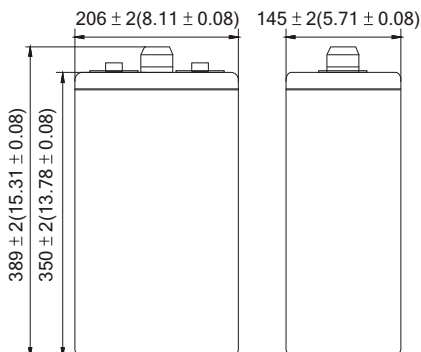
**WSF** **ISO14001** C4M20310-2474-E-16

**WSF** **OHSMS**

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

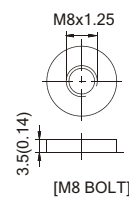
### OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
206±2(8.11±0.08)	145±2(5.71±0.08)	350±2(13.78±0.08)	389±2(15.31±0.08)



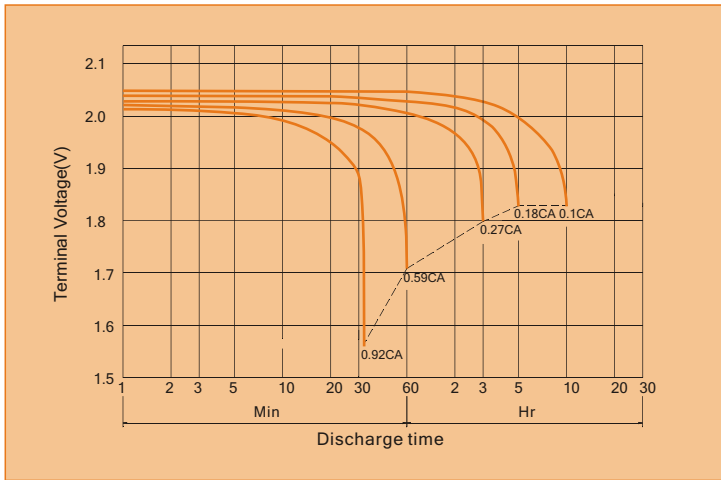
### TERMINAL TYPE

- Terminal I3

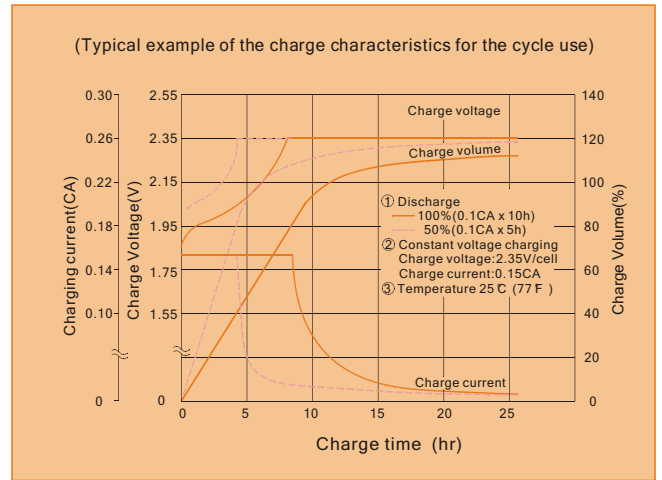


Terminal Hardware Initial Torque: I3(10.0Nm±5%)

**OPzV300-2 discharge characteristics (25°C /77°F)**



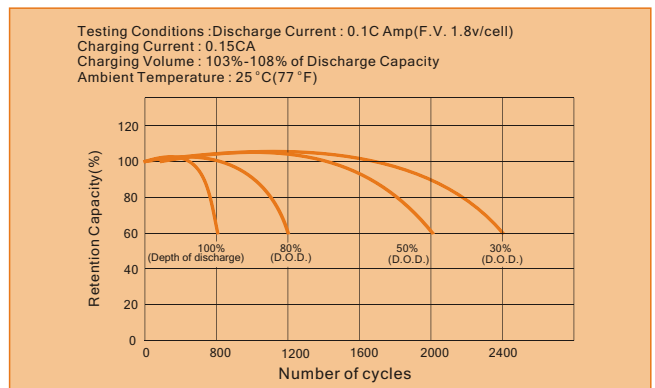
**Battery Charging Characteristics**



**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	334	323	246	174	137	113.4	97.0	83.8	67.4	56.1	36.1
1.85V	443	380	307	200	151	121.8	104.4	90.7	74.3	59.4	40.3	27.5	
1.80V	525	452	332	210	158	126.0	107.7	93.9	76.7	60.0	40.7	28.4	
1.75V	596	494	349	218	160	128.1	110.3	96.4	78.3	62.0	42.0	29.0	
1.70V	628	512	357	225	164	130.2	112.1	98.3	80.0	64.4	42.6	29.6	
1.65V	668	533	370	229	166	132.3	113.8	100.0	80.9	65.0	42.8	29.8	
1.60V	691	552	378	235	170	134.4	115.1	101.2	81.5	65.4	43.1	30.0	

**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	167	162	123	87	68	57	48.5	41.9	33.7	28.0	18.1	12.6	7.3
1.85V	222	190	153	100	76	61	52.2	45.4	37.2	29.7	20.2	13.8	7.6	4.1	
1.80V	263	226	166	105	79	63	53.9	46.9	38.3	30.0	20.4	14.2	7.8	4.2	
1.75V	298	247	174	109	80	64	55.1	48.2	39.2	31.0	21.0	14.5	7.9	4.3	
1.70V	314	256	179	112	82	65	56.1	49.1	40.0	32.2	21.3	14.8	8.0	4.4	
1.65V	334	267	185	114	83	66	56.9	50.0	40.4	32.5	21.4	14.9	8.1	4.5	
1.60V	345	276	189	118	85	67	57.5	50.6	40.7	32.7	21.5	15.0	8.2	4.6	

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained herein.

Trial A/0 REV. Jun. 2013

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