

ZELUS

TUBULAR & GEL Technology Battery

OPzV12/100

12V, 100Ah/C₁₀

FEATURES

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



APPLICATION

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

SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	100 Ah @ 10 hour rate F.V.(1.80V/cell)
Approx. Weight	47.32Kg(104.34lbs.)
Terminals	B9 (Fitting M8 bolt & nut) I3 is optional
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	15.0 A
Operating Temperature Range	Charge 0°C~40°C(32°F~104°F) Discharge -20°C~50°C(-4°F~122°F) Storage -20°C~40°C(-4°F~104°F)
Self Discharge	< 2% per month (25°C)
Internal Resistance	≤6.0mΩ (Fully Charged)

CONTAINER MATERIAL

- Standard: ABS(UL 94-HB)
Model Name: OPzV12/100
- Optional: Flame Retardant ABS(UL 94-V0)
Model Name: OPzV12/100FR

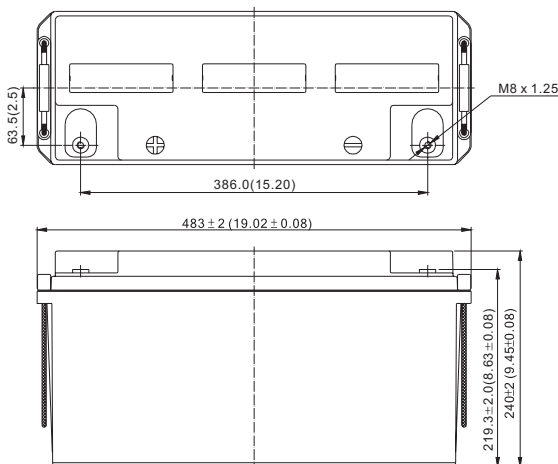
WSF **WSF** **WSF**
ISO9001 ISO14001 OHSMS



- IEC 60896-21/22 ● JIS C 8704-2
- GB/T 19638.2

OUTER DIMENSIONS mm(inch)

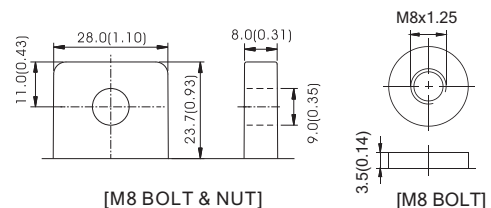
Length (L)	Width (W)	Container Height (H)	Total Height (TH)
483±2.0(19.02±0.08)	171±2.0(6.73±0.08)	240±2.0(9.45±0.08)	240±2.0(9.45±0.08)



TERMINAL TYPE

● Terminal B9

● Terminal I3

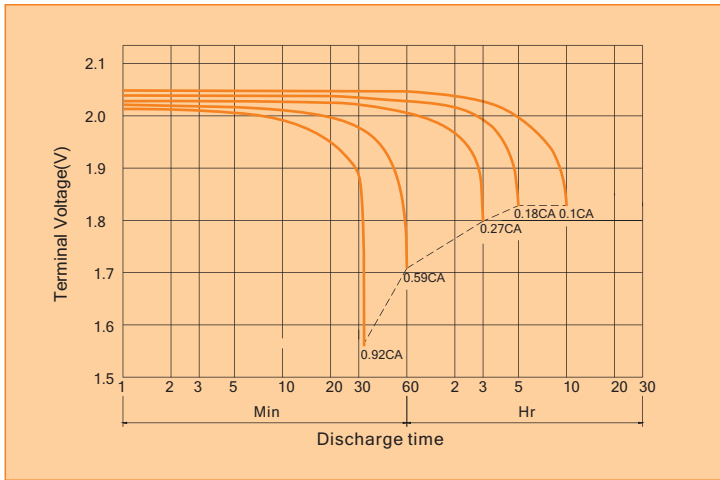


[M8 BOLT & NUT]

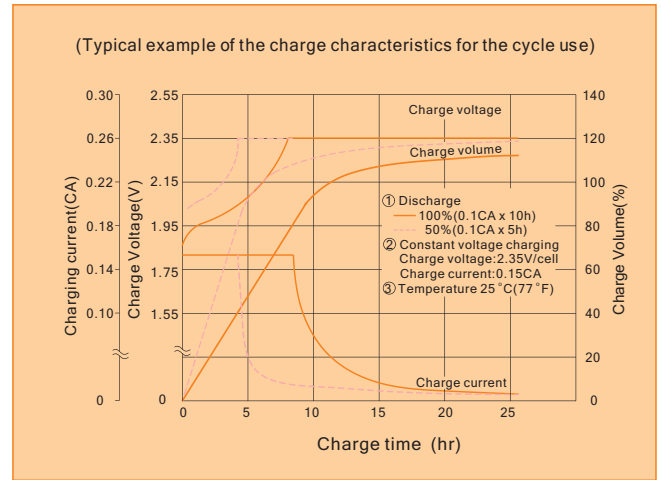
[M8 BOLT]

Terminal Hardware Initial Torque:
B9,I3(10.0Nm±5%)

OPzV12/100 discharge characteristics (25°C/77°F)



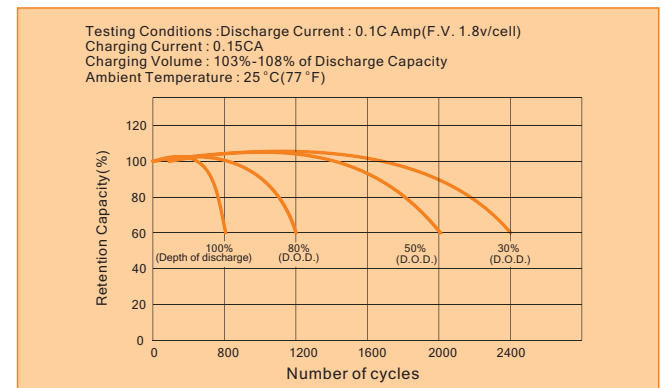
Battery Charging Characteristics



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	661	558	461	348	272.0	228.0	194.0	167.6	138.4	112.00	72.40	50.40
1.85V	870	729	570	400	297.6	244.0	208.8	180.0	146.5	116.52	78.00	55.20
1.80V	1015	853	641	420	309.6	252.0	215.6	187.6	153.2	120.00	81.60	56.80
1.75V	1109	933	675	436	320.0	256.0	220.4	192.8	156.8	121.80	84.00	58.00
1.70V	1181	973	687	448	328.0	260.0	224.4	196.4	160.0	122.88	85.20	59.20
1.65V	1236	999	699	456	332.0	264.0	227.6	200.0	161.6	123.72	85.60	59.60
1.60V	1263	1021	707	472	340.0	268.0	230.0	202.4	162.8	123.84	86.00	60.00

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	56	47	38	29	22.7	19.0	16.2	14.0	11.5	9.33	6.03	4.20	2.43	1.27
1.85V	74	61	48	33	24.8	20.3	17.4	15.0	12.2	9.71	6.50	4.60	2.53	1.37
1.80V	88	73	54	35	25.8	21.0	18.0	15.6	12.8	10.00	6.80	4.73	2.60	1.40
1.75V	97	81	58	36	26.7	21.3	18.4	16.1	13.1	10.15	7.00	4.83	2.63	1.43
1.70V	105	85	60	37	27.3	21.7	18.7	16.4	13.3	10.24	7.10	4.93	2.67	1.47
1.65V	111	89	62	38	27.7	22.0	19.0	16.7	13.5	10.31	7.13	4.97	2.70	1.50
1.60V	115	92	63	39	28.3	22.3	19.2	16.9	13.6	10.32	7.17	5.00	2.73	1.53

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. Feb. 2017

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