

# BANSHEE™

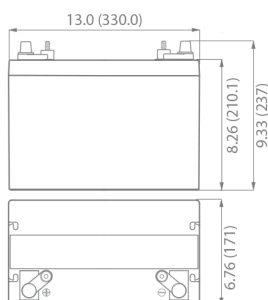
“IT'S NOT A BATTERY, IT'S A BANSHEE”

## SEALED MARINE BATTERY

Specification	AGM Deep cycle 12V105AH
Cells Per Unit	6
Voltage Per Unit	12
Capacity	114Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 30.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 5.0 mΩ
Terminal	F5(M8)/F12(M8)
Max. Discharge Current	1140A (5 sec)
Design Life	12 years (floating charge)
Max. Charging Current	34.5 A
Reference Capacity	C3 87.2AH C5 98.2AH C10 108.6AH C20 114.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	Maxpower Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



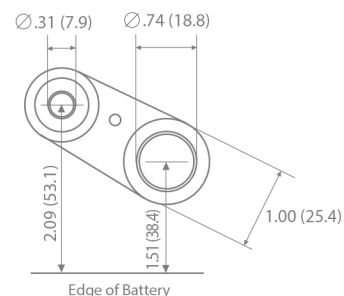
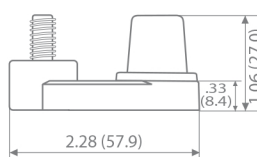
DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, V, telecom, broadband and cable TV, UPS systems etc.



L: 13.0 in (330 mm)  
W: 6.76 in (171.7 mm)  
H: 8.26 in (210.1 mm)  
TH: 9.33 in (237 mm)  
Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

### Terminals

#### Marine Combo Post



Edge of Battery

### Constant Current Discharge Characteristics : A(25°C)

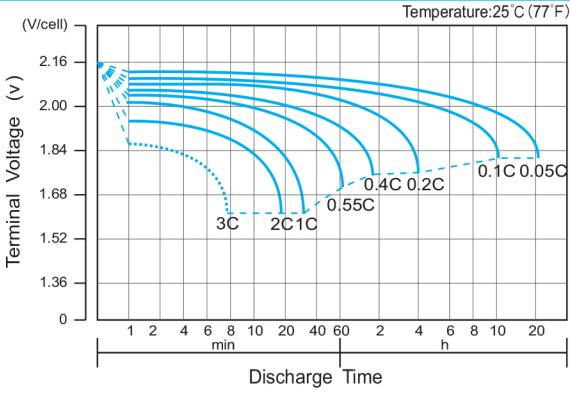
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	255.1	202.7	122.9	69.24	41.23	32.12	25.19	21.43	13.75	11.40	5.908
1.65V	235.0	189.6	116.4	66.88	39.85	31.13	24.44	20.76	13.64	11.29	5.877
1.70V	217.8	178.3	110.4	64.74	38.79	29.82	23.69	20.20	13.42	11.07	5.803
1.75V	199.8	167.0	106.0	62.70	37.30	29.05	23.04	19.64	13.20	10.97	5.700
1.80V	181.8	152.9	102.1	59.91	36.03	28.50	22.50	19.38	12.99	10.86	5.645
1.85V	142.3	126.5	86.59	53.48	32.94	26.53	21.10	17.84	12.23	10.21	5.592

### Constant Power Discharge Characteristics : WPC(25°C)

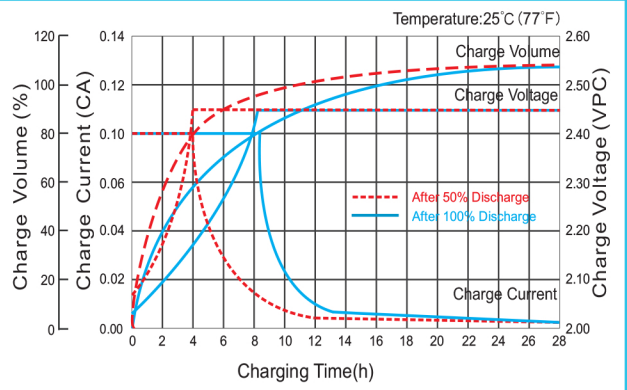
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	434.3	353.6	223.3	130.0	77.96	60.99	48.56	40.57	26.79	22.36	11.80
1.65V	418.2	343.8	218.1	127.8	75.86	59.47	47.37	39.47	26.57	22.14	11.69
1.70V	390.3	325.4	207.6	124.0	73.96	57.19	45.87	38.48	26.25	21.71	11.58
1.75V	363.2	307.1	200.3	120.6	71.33	55.78	44.79	37.60	25.82	21.50	11.37
1.80V	334.7	283.9	193.9	115.6	69.71	55.47	43.93	37.10	25.39	21.28	11.27
1.85V	265.5	238.5	166.3	103.9	64.19	51.74	41.34	34.32	24.00	20.10	11.16

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

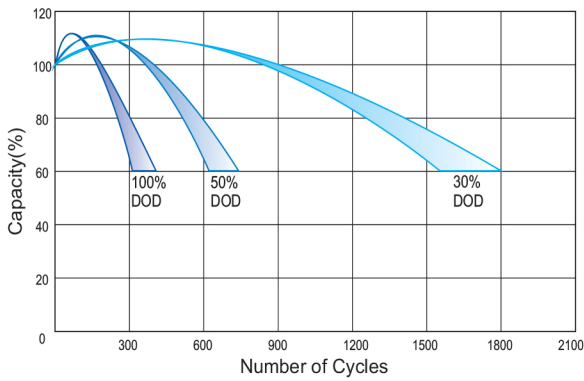
### Discharge Characteristics Curve



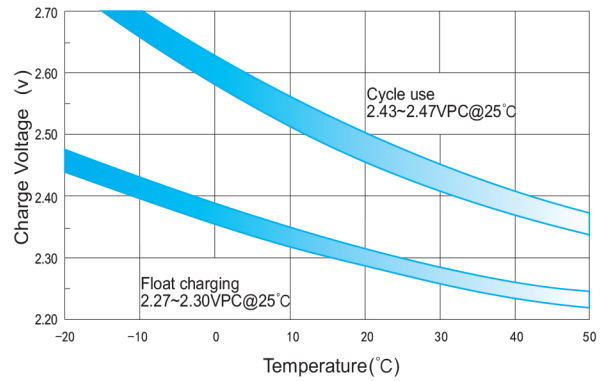
### Charge Characteristic Curve for Cycle Use(IU)



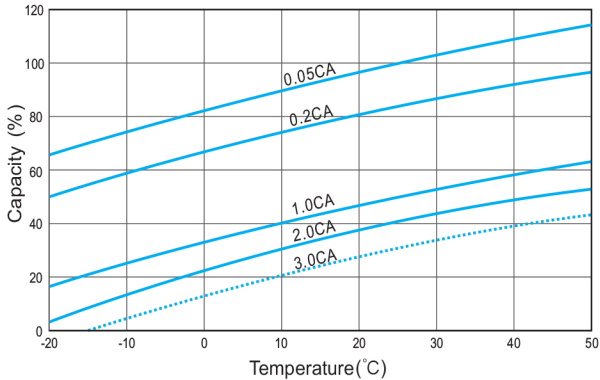
### Cycle Life in Relation to Depth of Discharge



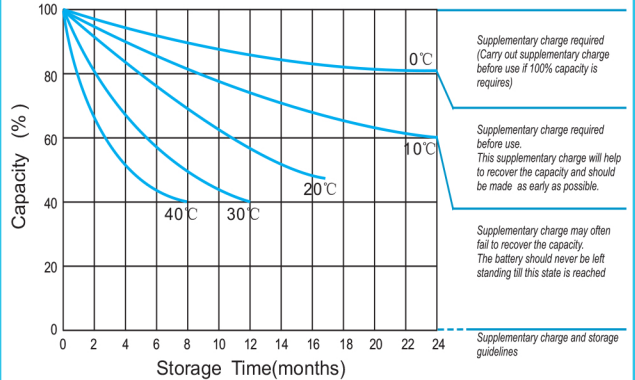
### Relationship Between Charging Voltage and Temperature



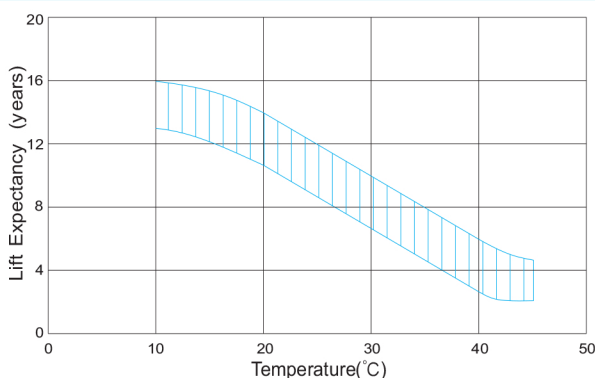
### Temperature Effects on Capacity



### Storage Characteristics



### Effect of Temperature on Long Term Life



### Relationship of OCV And State of Charge(20°C)

