



12 V 150 AH AGM CYCLE MARINE BATTERY

Nano Carbon Valve Regulated Marine Edition

Specification

Cells Per Unit	6
Voltage Per Unit 12	12
Capacity	162Ah@20hr-rate to 1.75V per cell @25 °C
Weight	Approx. 48kg (Tolerance±3.0%)
Internal Resistance	Approx. 3.1 mΩ
Terminal	F12(M8)
Max. Discharge Current	1500A (5 sec)
Design Life	12 years (floating charge)
Max. Charging Current	50.0 A
Reference Capacity	C3 136AH C5 145AH C10 152AH C20 162AH
Float Charging Voltage	13.6 V-13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.4 V-14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C-60°C Charge: -20 -50°C Storage: -40 -60°C
Normal Operating Temperature Range	25°C ± 5°C
Self Discharge	Agri Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 8 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.



Agromot Deep Cycle Gel batteries are designed for maintenance-free usage and produced for high performance and trouble-free charge and discharges thanks to its Dry Battery Technology. Provides wide product range for power charge. Particular usage areas;

*Motorhome, Caravan, Tiny and Wooden House

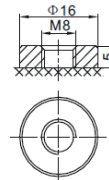
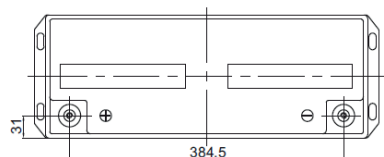
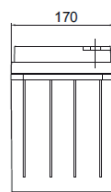
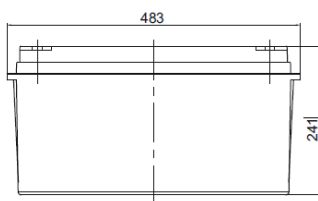
- Marine yachts and boats
- Solar powered home and workplace systems
- Telecommunication infrastructure networks
- UPS storage systems

As a result of long time experience and know-how of AGROMOT in deep discharge agm battery systems and excellent engineering technology;

•Strong Polypropylene casing-Impregnated AGM separators providing maximum reach by Deep cycle and instantaneous current draw.

•Controllable process calibration provide AGROMOT to sustain among the companies in the World market for many years long in terms of quality.

Dimensions



Length	483±2mm (19.0 inches)
Width	170±2mm (6.69 inches)
Height	241±2mm (9.49 inches)
Total Height	241±2mm (9.49 inches)
Terminal	Value
M5	6-7 N*m
M6	8-10 N*m
M8	10-12 N*m

F12 Terminal

Unit: mm

Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	321.2	286.8	166.5	106.5	86.1	62.4	40.4	29.3	18.9	15.5	8.33
1.65V	310.8	272.5	158.6	98.9	82.4	60.7	38.2	28.9	18.4	15.4	8.26
1.70V	300.6	261.5	152.3	92.6	80.4	58.3	36.5	26.4	18.0	15.3	8.17
1.75V	286.7	252.0	147.9	91.5	78.3	57.6	34.9	24.3	17.1	15.2	8.10
1.80V	272.4	236.1	142.0	91.0	72.5	54.2	33.7	24.2	16.6	15.1	8.04
1.85V	242.6	210.9	138.4	90.4	65.1	52.4	32.1	23.9	16.1	15.0	7.89

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3684	3268	2160	1243	694	516	392	325	216	196	106
1.65V	3586	3106	2054	1238	685	492	387	323	214	194	99
1.70V	3427	3069	1985	1230	673	487	376	320	212	192	98
1.75V	3265	2985	1942	1223	662	477	367	319	211	191	97
1.80V	3126	2756	1916	1203	642	459	361	318	209	187	97
1.85V	2896	2467	1864	1196	637	442	356	315	207	184	95

(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 C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

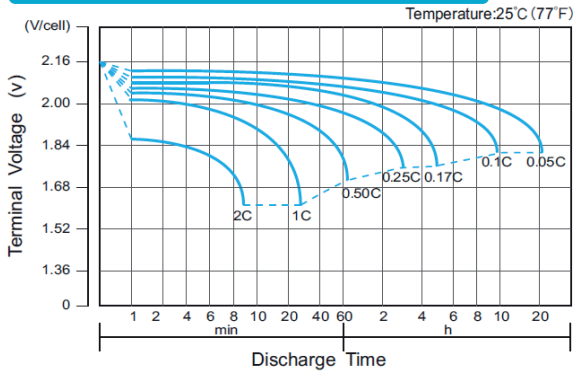


12 V 150 AH DEEP CYCLE MARINE BATTERY

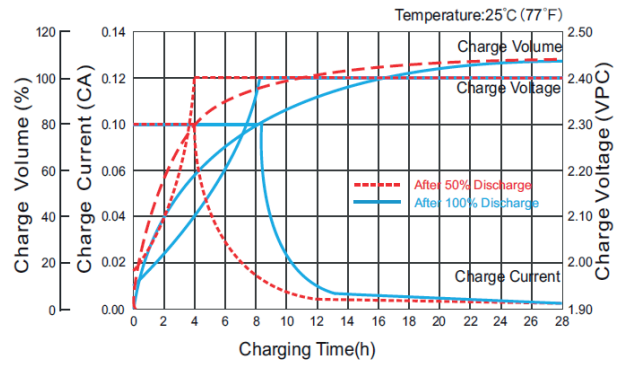
Nano Carbon Valve Regulated Marine Edition



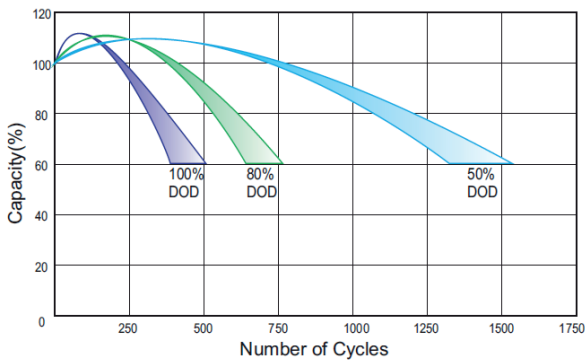
Discharge Characteristics Curve



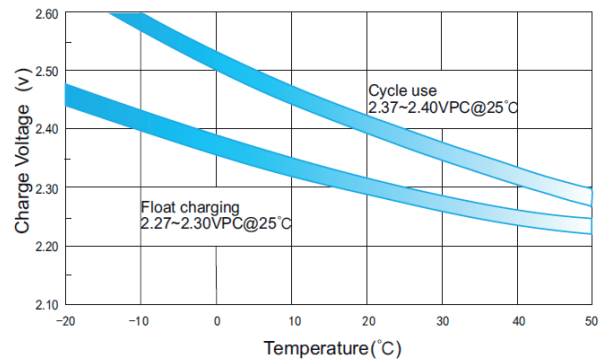
Charge Characteristic Curve for Cycle Use (IU)



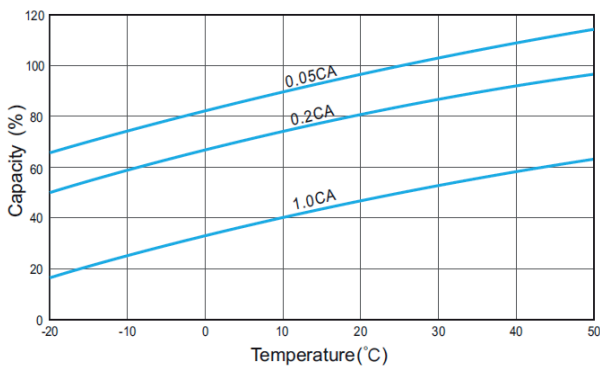
Cycle Life in Relation to Depth of Discharge



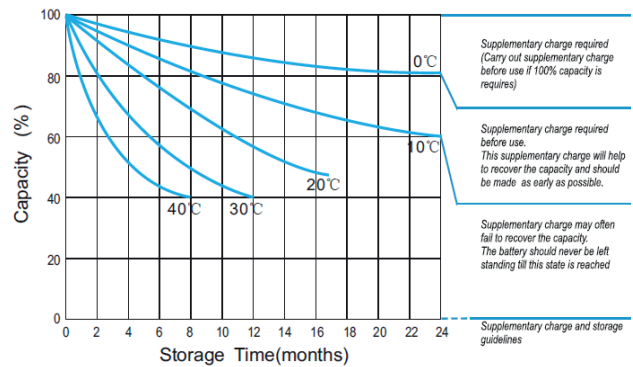
Relationship Between Charging Voltage and Temperature



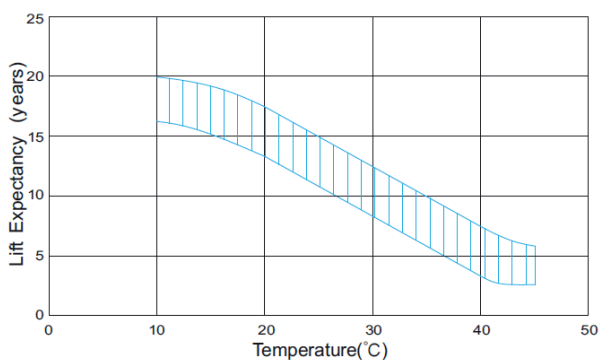
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

