AGROMOT
GIDA ENERJİ İÇ VE DIŞ TİC. LTD. ŞTİ.

12 V 100 AH DEEP CYCLE GEL BATTERY

Nano Carbon Valve Regulated Lead Acid

YERLİ ÜRETİM

Specification

Cells Per Unit	6
Voltage Per Unit	12 V
Nominal Capacity	100Ah@20hour-rate to 1.80V per cell @25℃
Weight	Approx. 30Kg (Tolerance±3.0%)
Internal Resistance	Approx. 4.2 mΩ
Terminal	F12(M8)
Max. Discharge Current	1000A (5 sec)
Short Circuit Current	2100A
Design Life	10 years (Float charging)
Max. Charging Current	30.0 A
Reference Capacity	C3 82.4AH C5 90.0AH C10 100.0AH C20 108.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	Agr Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 8 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃ 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;

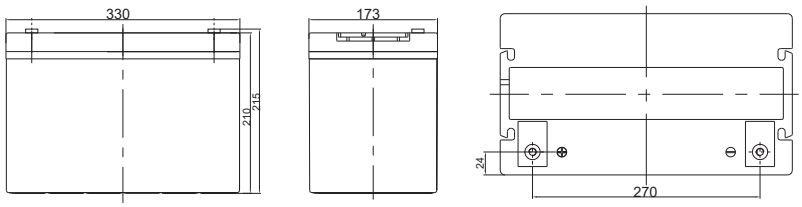
*Motorhome, Caravan, Tiny and Wooden House
•Marine yachts and boats
•Solar powered home and workplace systems
•Telecommunication infrastructure networks
•UPS storage systems

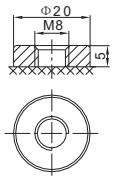
As a result of long time experience and know-how of AGROMOT in deep discharge agm battery systems and excellent engineering technology;

•Strong Polypropylene casing•Impregnated AGM separators providing maximum reach by Deep cycle andinstantaneous 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





F12 Terminal

Length	330mm±2mm (13 inches)
Width	173±2mm (6.81inches)
Height	210±2mm (8.27 inches)
Total Height	215±2mm (8.46 inches)
Terminal	Value
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	238.0	195.7	124.1	81.1	56.4	38.2	27.2	24.1	15.8	10.5	5.53
1.65V	223.5	185.1	120.0	79.0	45.2	37.3	26.6	23.4	15.6	10.4	5.43
1.70V	198.0	174.6	115.5	67.1	44.1	36.6	26.0	22.9	15.4	10.3	5.36
1.75V	182.9	163.9	111.3	65.1	42.9	35.8	25.4	22.4	15.2	10.1	5.30
1.80V	167.4	153.9	107.3	62.9	41.7	35.0	24.9	22.0	15.0	10.0	5.25
1.85V	144.5	130.8	95.2	57.4	39.1	33.1	23.5	21.9	14.3	9.42	4.96

Constant Power Discharge Characteristics : WPC (25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	2385	1896	1325	876	602	486	341	295	185	135	76
1.65V	2269	1824	1275	865	589	480	330	286	182	130	75
1.70V	2187	1768	1203	849	576	467	326	272	180	128	73
1.75V	1989	1698	1200	826	570	456	317	268	176	125	72
1.80V	1876	1520	1175	798	562	432	315	265	171	121	71
1.85V	1798	1453	1127	754	556	402	312	240	149	118	65

(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_{10} should reach 95% after the first cycle and 100% after the third cycle.

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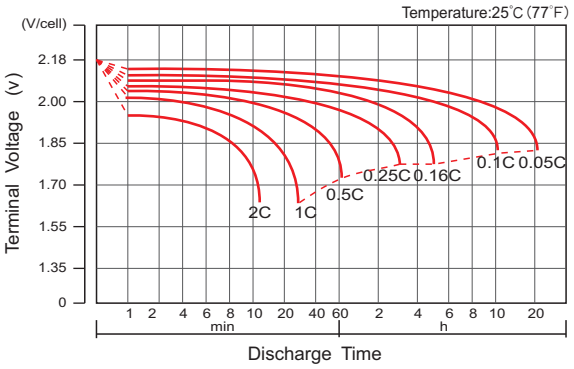
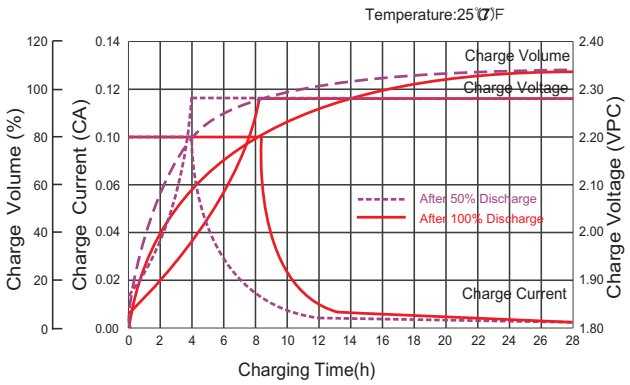
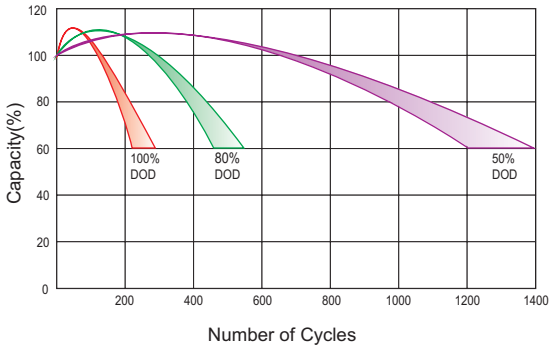
Discharge Characteristics Curve



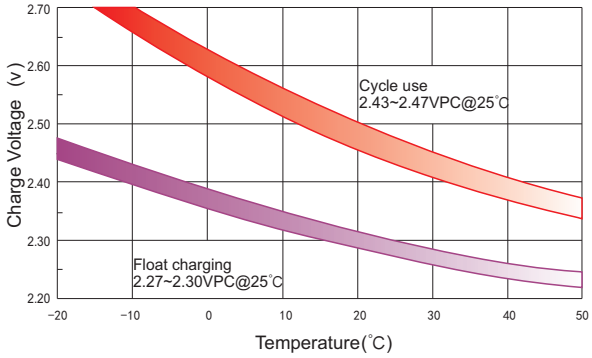
Charge Characteristic Curve For Standby Use



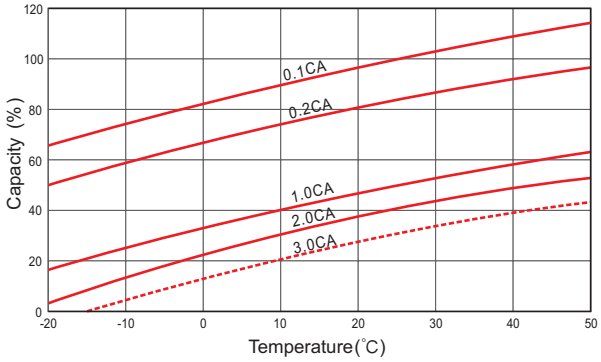
Cycle Life In Relation To Depth Of Discharge



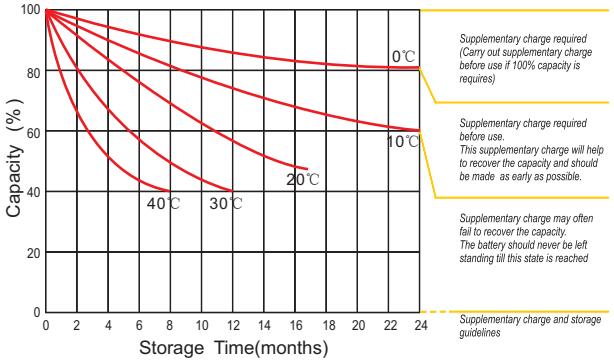
Relationship Between Charging Voltage And Temperature



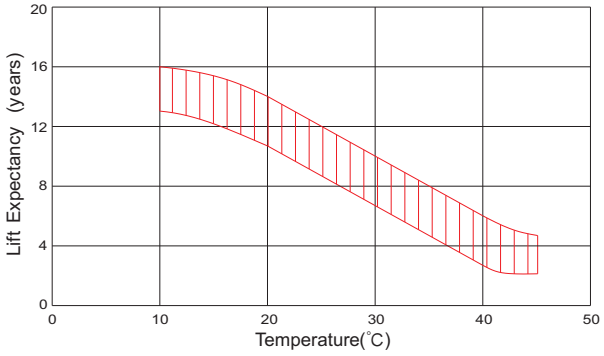
Temperature Effects On Capacity



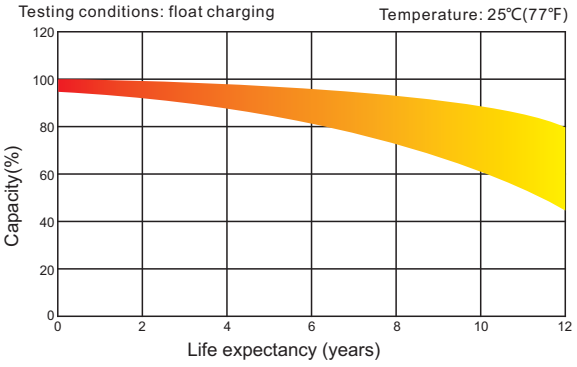
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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