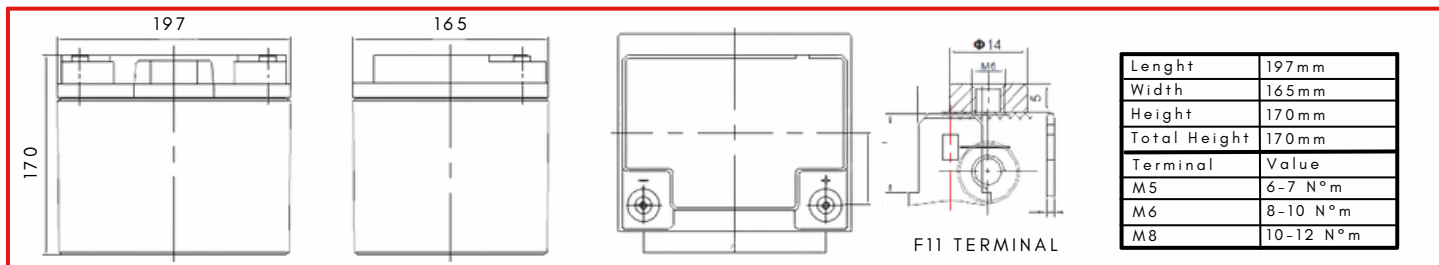


AGM DEEP CYCLE SERIES LDC
SPECIFICATIONS

Cells per Unit	6
Voltage per Unit	12
Capacity	45Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx.14.5Kg(Tolerance ± 3%)
Internal Resistance	Approx. ≤7.0 mΩ
Terminal	F11/M6
Max. Discharge Current	450A (5sec)
Design Life	12 years(floating charge)
Max. Charging Current	13.5A
Reference Capacity	C3 31.0AH C5 36.0AH C10 43.0AH C20 45.0AH
Float Charging Voltage	13.6V≈13.8V @25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6V≈14.8V @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	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

LDC | Lead Deep Cycle
 AGM DEEP CYCLE SERIES


LDC series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the LDC series battery offers reliable performance in high load situations and could provide competitive cycle performance. It is suitable for Electric Vehicles and Golf Carts, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, RV, Mobility and Medical Equipment, and most outdoor application.

DIMENSIONS

CONSTANT CURRENT DISCHARGE CHARACTERISTICS A(25°C)

F.V/Time	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	85.94	50.26	27.77	16.4	12.7	9.99	8.5	5.71	4.75	2.48
1.65V	82.16	48.26	26.82	15.87	12.31	9.72	8.28	5.65	4.69	2.44
1.70V	76.95	46.12	25.95	15.35	11.98	9.45	8.06	5.56	4.62	2.41
1.75V	71.61	44.08	25.0	14.81	11.62	9.21	7.86	5.48	4.56	2.38
1.80V	66.12	42.14	24.04	14.28	11.26	8.94	7.66	5.39	4.5	2.36
1.85V	54.87	36.29	21.56	13.09	10.41	8.31	7.14	5.06	4.24	2.24

CONSTANT POWER DISCHARGE CHARACTERISTICS WPC(25°C)

F.V/Time	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	150.2	91.3	52.2	31.1	24.3	19.2	16.4	11.2	9.33	4.89
1.65V	145.8	88.6	50.7	30.2	23.6	18.7	16.0	11.1	9.23	4.82
1.70V	138.6	85.5	49.3	29.4	23.1	18.3	15.7	10.9	9.1	4.77
1.75V	130.8	82.6	47.8	28.5	22.5	17.9	15.3	10.8	9.0	4.71
1.80V	122.5	79.7	46.3	27.6	21.9	17.4	15.0	10.6	8.89	4.67
1.85V	103.1	69.3	41.7	25.4	20.3	16.3	14.0	9.99	8.38	4.44

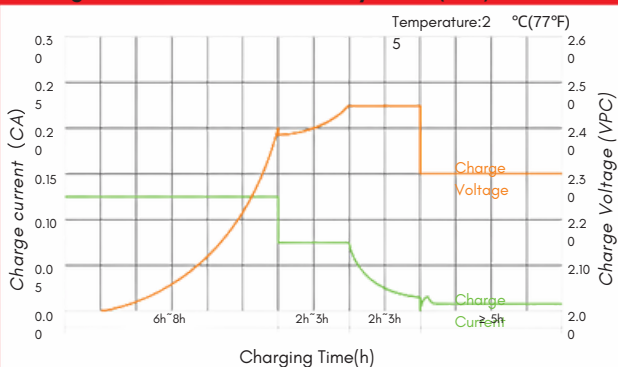
(Note)The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C20 should reach 95% after the first cycle and 100% after the third cycle.



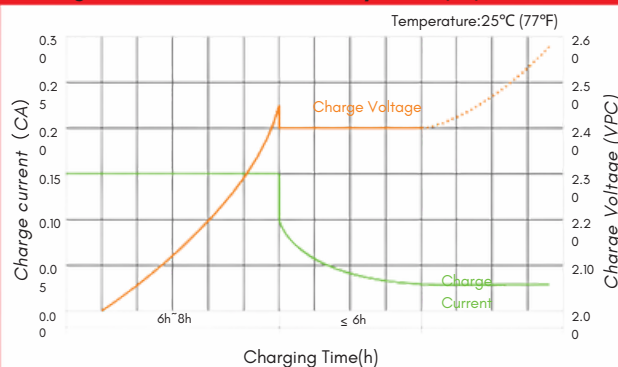


AGM DEEP CYCLE SERIES LDC

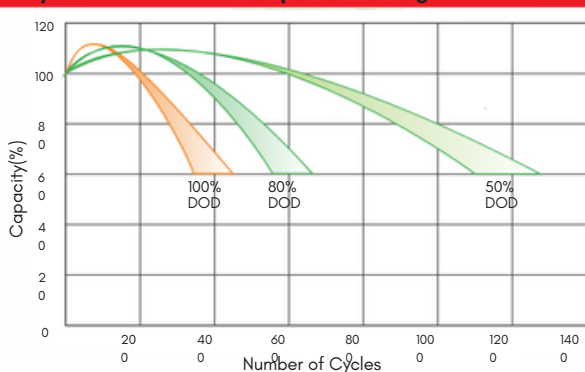
Charge Characteristic Curve for Cycle Use(IIUU)



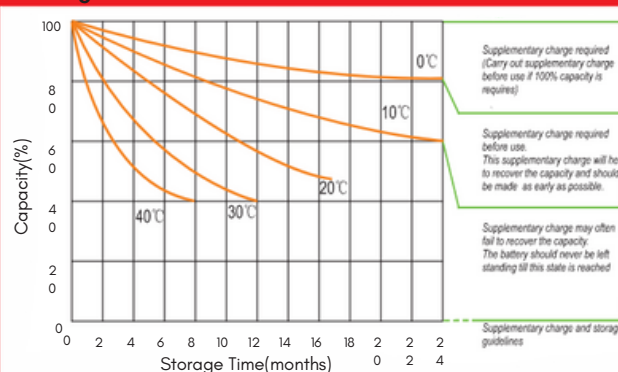
Charge Characteristic Curve For Cycle Use(IUI)



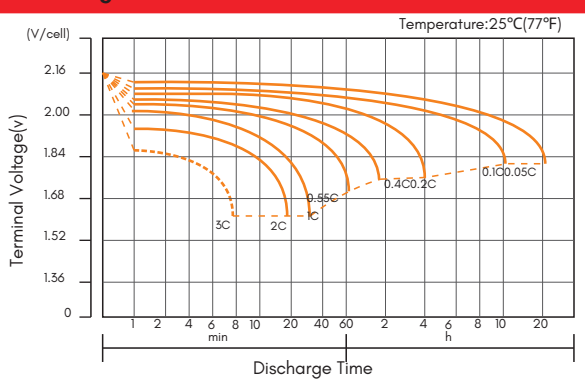
Cycle Life in Relation to Depth of Discharge



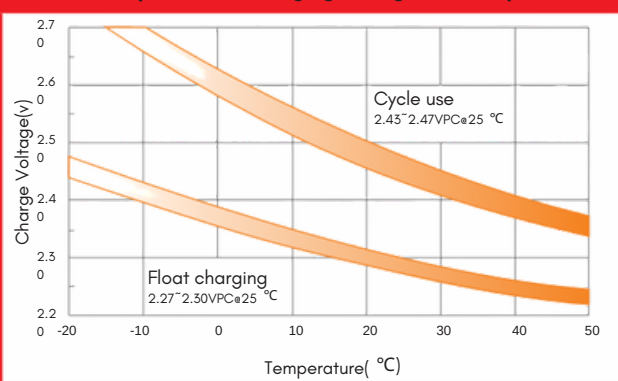
Storage Characteristics



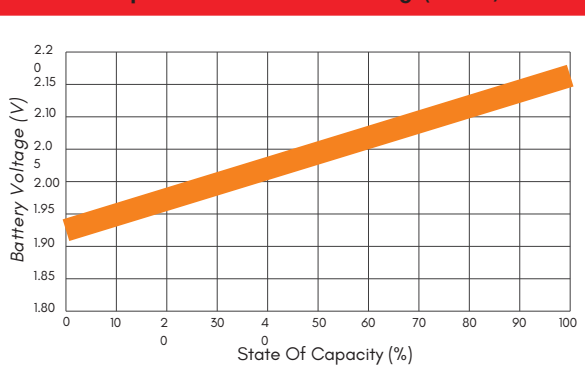
Discharge Characteristics Curve



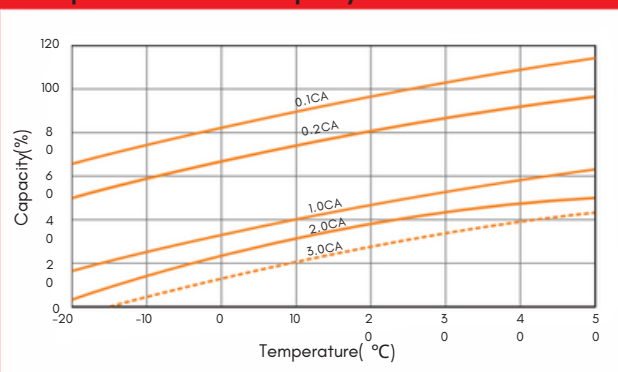
Relationship Between charging Voltage and Temperature



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



Temperature Effects on Capacity



(Note) All of the above information could be changed without prior notice. IBS Italia reserves the right to explain and update the latest information.

