

**AGM DEEP CYCLE SERIES LDC**

**SPECIFICATIONS**

Cells per Unit	6
Voltage per Unit	12
Capacity	20Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 6.3Kg(Tolerance ± 3%)
Internal Resistance	Approx. ≤14.0 mΩ
Terminal	F13/M5
Max. Discharge Current	234A (5sec)
Design Life	6 years(floating charge)
Max. Charging Current	5.4A
Reference Capacity	C3 15.0AH C5 16.8AH C10 18.9AH C20 20.0AH
Float Charging Voltage	13.7V≈13.9V @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**

Length	181mm
Width	76mm
Height	167mm
Total Height	167mm
Terminal	Value
M5	6-7 N°m
M6	8-10 N°m
M8	10-12 N°m

**CONSTANT CURRENT DISCHARGE CHARACTERISTICS A(25°C)**

F.V/Time	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	36.75	21.13	12.4	7.08	5.0	3.91	3.26	2.2	1.82	0.94
1.65V	35.65	20.68	12.17	6.95	4.92	3.85	3.22	2.18	1.8	0.93
1.70V	34.2	20.1	11.86	6.8	4.82	3.78	3.17	2.15	1.78	0.92
1.75V	32.26	19.3	11.43	6.58	4.68	3.68	3.1	2.1	1.75	0.9
1.80V	29.65	18.2	10.85	6.27	4.49	3.55	2.99	2.04	1.7	0.88
1.85V	26.05	16.66	10.02	5.84	4.21	3.35	2.84	1.95	1.63	0.85

**CONSTANT POWER DISCHARGE CHARACTERISTICS WPC(25°C)**

F.V/Time	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	64.25	38.37	23.19	13.41	9.54	7.5	6.29	4.3	3.58	1.84
1.65V	63.63	38.13	22.99	13.28	9.46	7.44	6.24	4.27	3.55	1.83
1.70V	61.59	37.25	22.48	13.01	9.28	7.31	6.15	4.21	3.51	1.81
1.75V	58.94	36.14	21.79	12.65	9.05	7.15	6.02	4.13	3.45	1.78
1.80V	54.93	34.44	20.77	12.13	8.71	6.91	5.84	4.01	3.36	1.74
1.85V	48.94	31.82	19.32	11.36	8.21	6.55	5.57	3.84	3.22	1.68

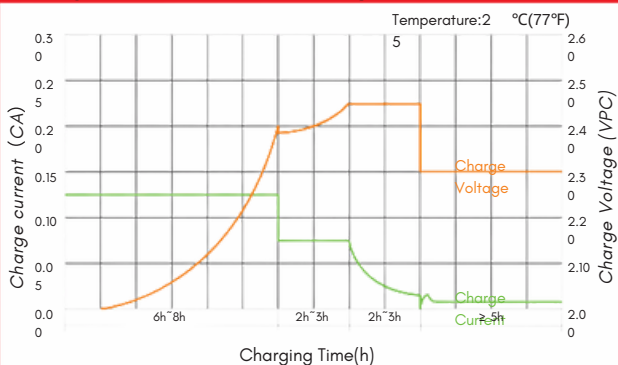
(Note)The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C20 should reach 95% after the first cycle and 100% after the third cycle.



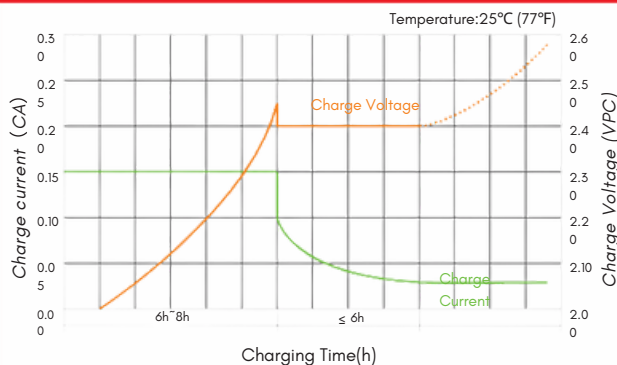


**AGM DEEP CYCLE SERIES LDC**

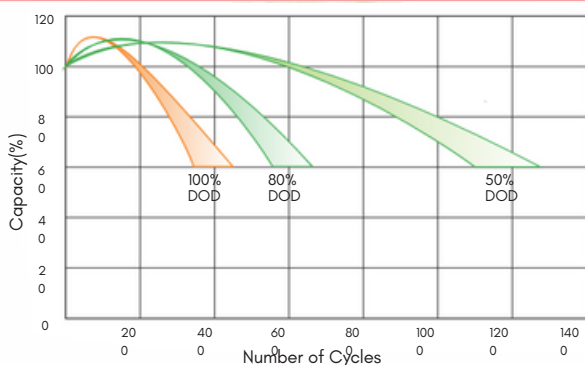
**Charge Characteristic Curve for Cycle Use(IIUU)**



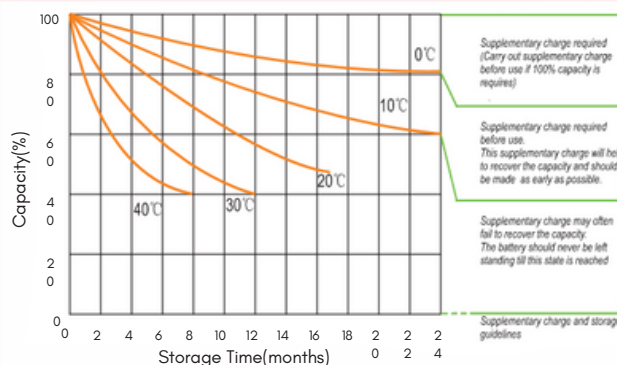
**Charge Characteristic Curve For Cycle Use(IUI)**



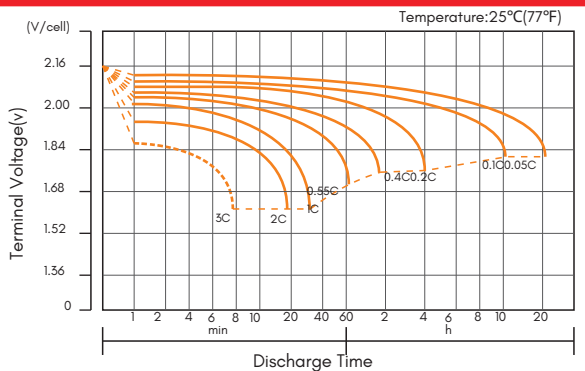
**Cycle Life in Relation to Depth of Discharge**



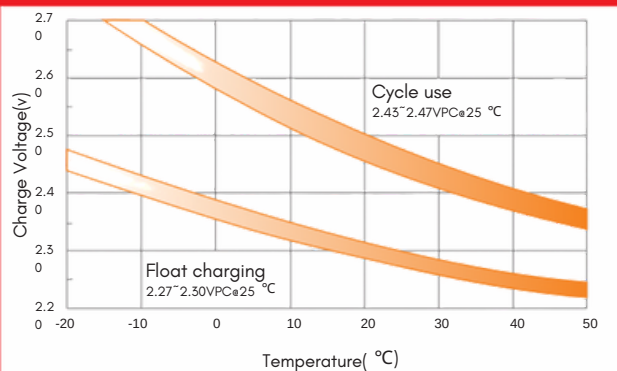
**Storage Characteristics**



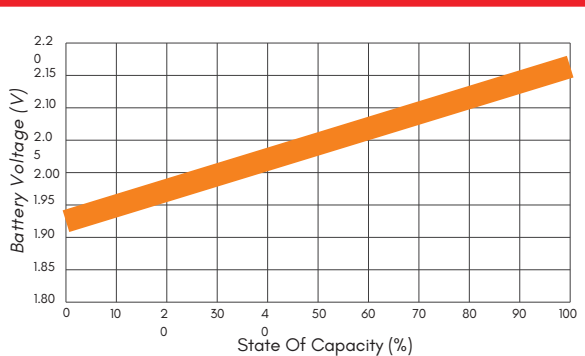
**Discharge Characteristics Curve**



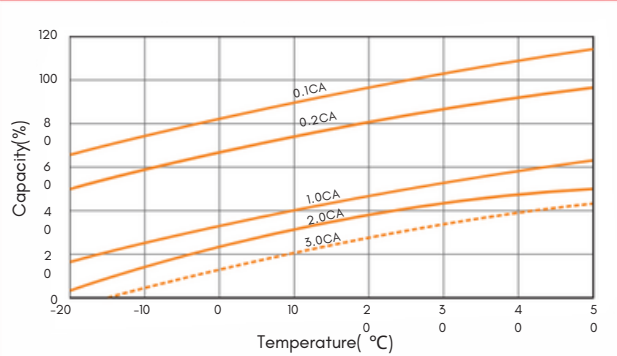
**Relationship Between charging Voltage and Temperature**



**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.

