



AGM DEEP CYCLE SERIES LDC

SPECIFICATIONS

Cells per Unit	6
Voltage per Unit	12
Capacity	106Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 30.0 Kg(Tolerance ± 3%)
Internal Resistance	Approx. ≤5.5 mΩ
Terminal	F12/M8
Max. Discharge Current	1000A (5sec)
Design Life	12 years(floating charge)
Max. Charging Current	30.0A
Reference Capacity	C3 77.4AH C5 87.5AH C10 100.0AH C20 106.0AH
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

Length	305mm
Width	168mm
Height	208mm
Total Height	212mm
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	191.0	111.7	61.7	36.4	28.2	22.2	18.9	12.7	10.5	5.52
1.65V	182.6	107.2	59.6	35.3	27.4	21.6	18.4	12.5	10.4	5.43
1.70V	171.0	102.5	57.7	34.1	26.6	21.0	17.9	12.4	10.3	5.36
1.75V	159.1	98.0	55.5	32.9	25.8	20.5	17.5	12.2	10.1	5.3
1.80V	146.9	93.6	53.4	31.7	25.0	19.9	17.0	12.0	10.0	5.25
1.85V	121.9	80.6	47.9	29.1	23.1	18.5	15.9	11.2	9.41	4.98

CONSTANT POWER DISCHARGE CHARACTERISTICS WPC(25°C)

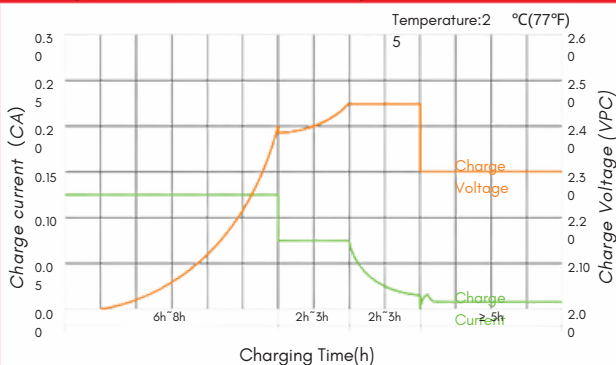
F.V/Time	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	333.8	202.9	116.0	69.1	53.9	42.6	36.4	24.8	20.7	10.9
1.65V	323.9	196.8	112.6	67.2	52.5	41.6	35.6	24.6	20.5	10.7
1.70V	307.9	190.0	109.6	65.3	51.3	40.6	34.8	24.2	20.2	10.6
1.75V	290.7	183.5	106.3	63.3	50.0	39.7	34.0	23.9	20.0	10.5
1.80V	272.2	177.1	102.8	61.4	48.6	38.7	33.3	23.6	19.8	10.4
1.85V	229.1	154.1	92.8	56.5	45.1	36.1	31.1	22.2	18.6	9.87

(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.

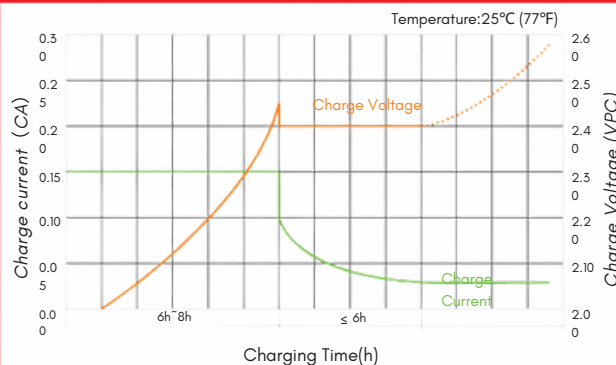




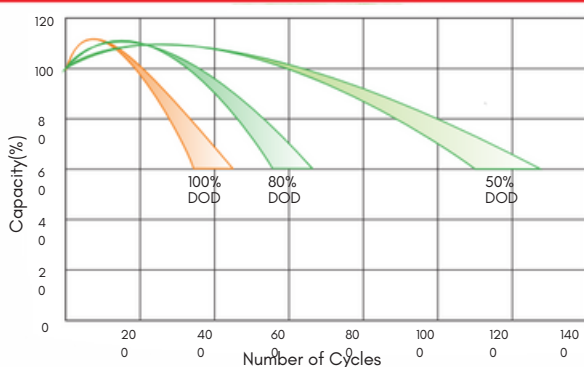
Charge Characteristic Curve for Cycle Use(IIUU)



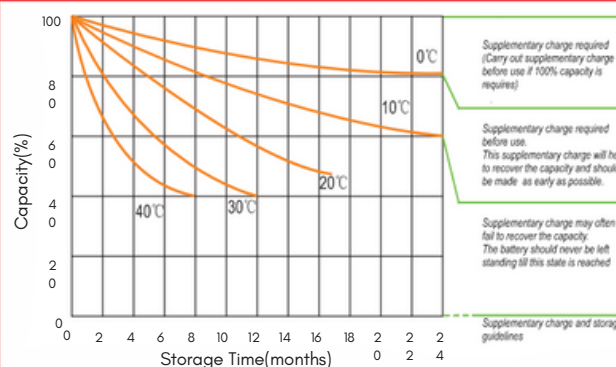
Charge Characteristic Curve For Cycle Use(IUI)



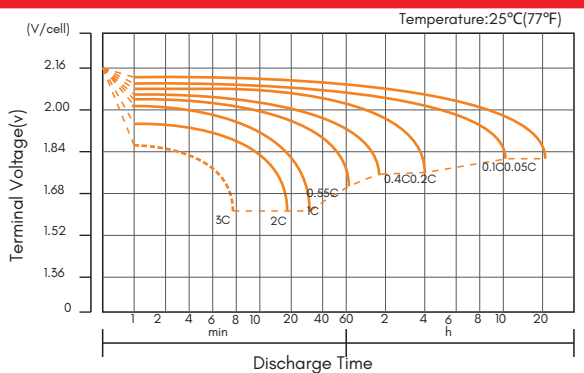
Cycle Life in Relation to Depth of Discharge



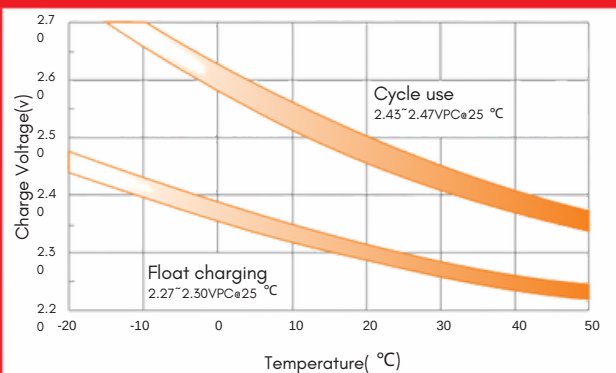
Storage Characteristics



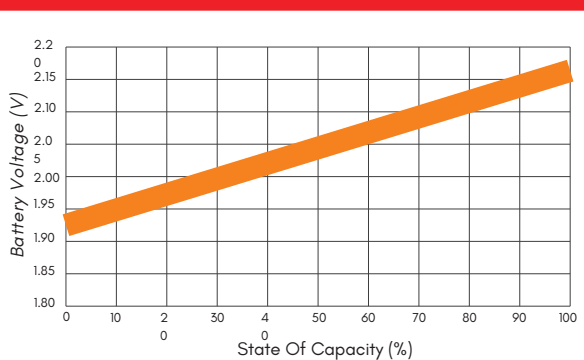
Discharge Characteristics Curve



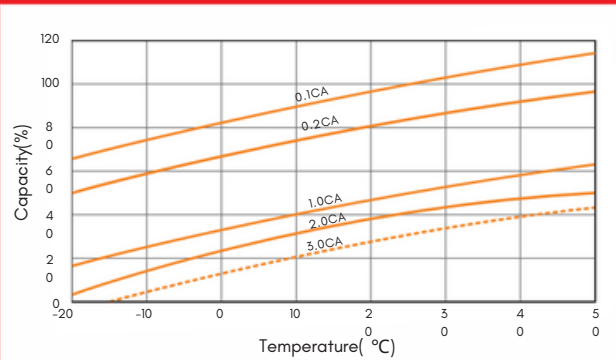
Relationship Between charging Voltage and Temperature



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.

