

AGM DEEP CYCLE SERIES LDC

SPECIFICATIONS

Cells per Unit	3
Voltage per Unit	6
Capacity	320Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 47.5Kg(Tolerance ± 3%)
Internal Resistance	Approx. ≤2.0 mΩ
Terminal	DT
Max. Discharge Current	3100A (5sec)
Design Life	12 years(floating charge)
Max. Charging Current	93A
Reference Capacity	C3 236.0AH C5 265.0AH C10 304.0AH C20 320.0AH
Float Charging Voltage	6.80V ≈ 6.90V @25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30V ≈ 7.40V @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	295mm
Width	180mm
Height	346mm
Total Height	366mm
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	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	329.0	191.3	113.0	87.5	68.8	58.5	39.3	32.7	17.1
1.65V	315.8	184.7	109.4	84.8	66.9	57.0	38.9	32.3	16.8
1.70V	301.9	178.7	105.8	82.5	65.1	55.5	38.3	31.8	16.6
1.75V	288.5	172.2	102.1	80.1	63.4	54.1	37.8	31.4	16.4
1.80V	275.8	165.6	98.4	77.6	61.6	52.7	37.1	31.0	16.3
1.85V	237.5	148.5	90.2	71.7	57.3	49.2	34.9	29.2	15.4

CONSTANT POWER DISCHARGE CHARACTERISTICS WPC(25°C)

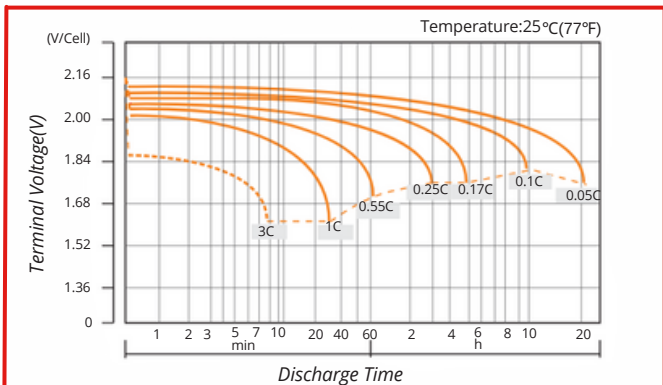
F.V/Time	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	597.5	359.5	214.1	167.2	132.1	112.8	76.8	64.3	33.7
1.65V	579.6	349.2	208.3	162.7	129.0	110.3	76.1	63.6	33.2
1.70V	559.6	339.9	202.5	159.0	125.9	107.8	75.1	62.7	32.8
1.75V	540.3	329.5	196.3	154.9	123.2	105.5	74.2	62.0	32.5
1.80V	521.7	318.7	190.3	150.7	120.1	103.1	73.1	61.3	32.2
1.85V	453.8	287.6	175.3	139.9	112.0	96.5	68.8	57.7	30.6

(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.

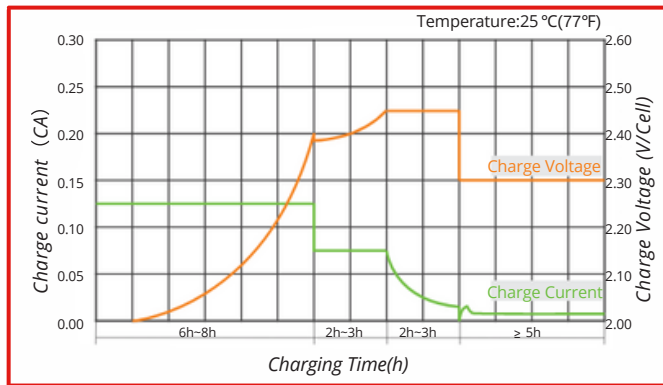


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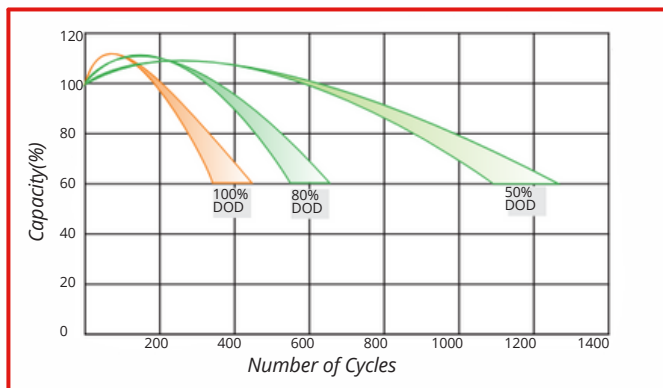
DISCHARGE CHARACTERISTICS CURVE



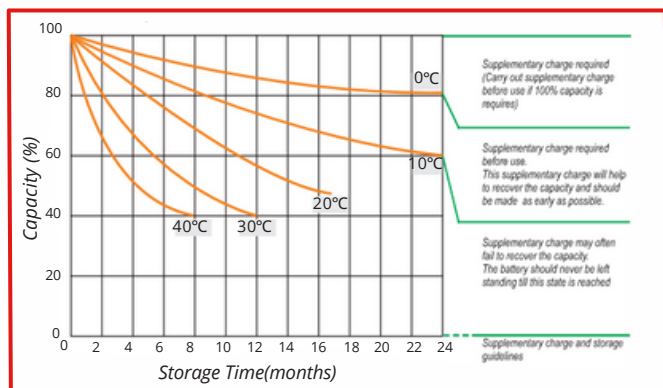
CHARGE CHARACTERISTICS CURVE FOR CYCLE USE



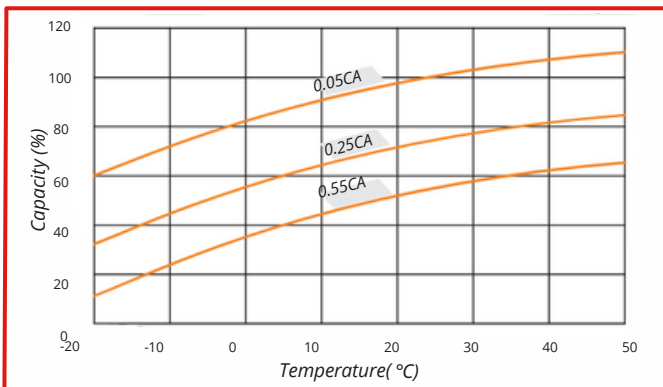
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



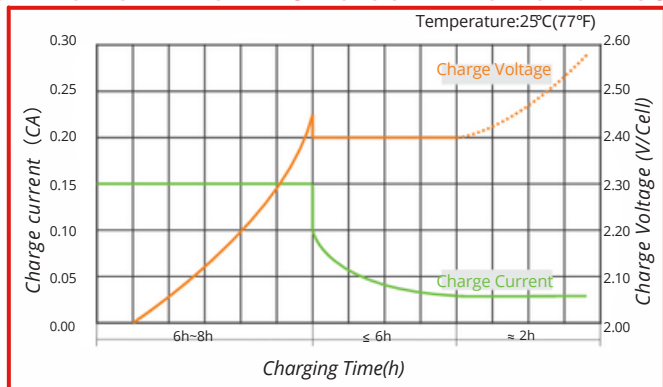
TEMPERATURE EFFECT ON BATTERY SELF-DISCHARGE



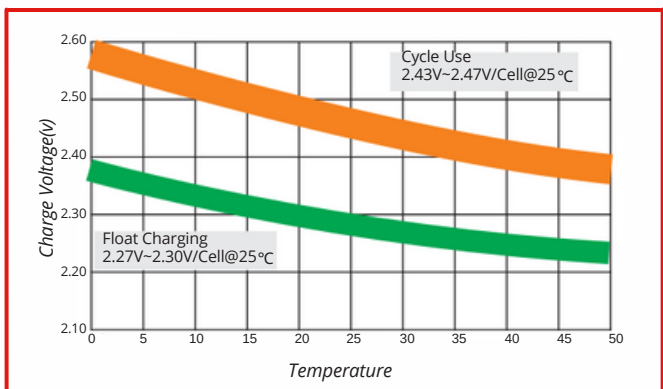
TEMPERATURE EFFECTS ON CAPACITY



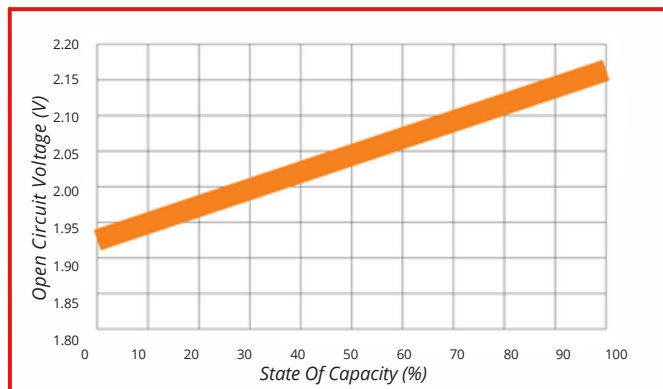
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLT. AND TEMP.



RELATIONSHIP OF OCV AND STATE OF CHARGE



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

