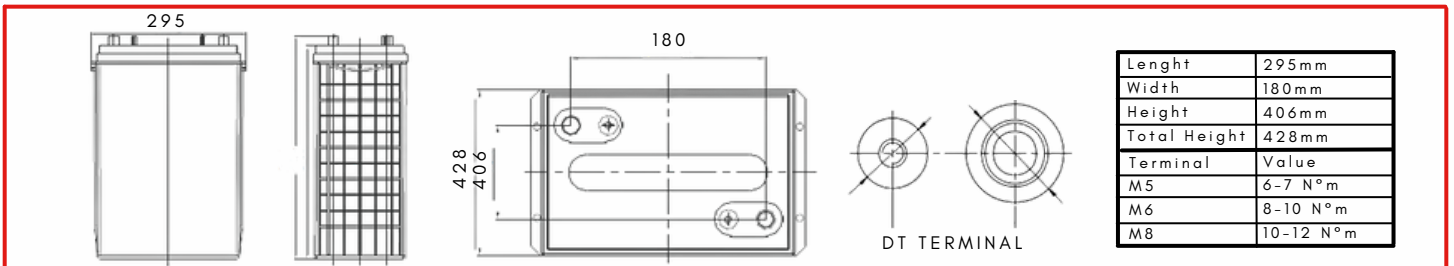


SPECIFICATIONS

Cells per Unit	3
Voltage per Unit	6
Capacity	420Ah@20hr-rate to 1.75V per cell@25°C
Weight	Approx. 57.0 Kg(Tolerance ± 3%)
Internal Resistance	Approx. ≤1.1 mΩ
Terminal	DT
Max. Discharge Current	4000A (5sec)
Design Life	12 years(floating charge)
Max. Charging Current	120A
Reference Capacity	C3 309.0AH C5 349.0AH C10 400.0AH C20 420.0AH
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 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	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	424.5	246.8	145.8	112.9	88.8	75.5	50.8	42.2	22.1
1.65V	407.5	238.4	141.1	109.4	86.4	73.6	50.2	41.7	21.7
1.70V	389.5	230.6	136.5	106.5	84.0	71.7	49.4	41.1	21.5
1.75V	372.3	222.2	131.7	103.3	81.9	69.9	48.7	40.5	21.2
1.80V	355.8	213.7	127.0	100.1	79.5	68.1	47.9	40.0	21.0
1.85V	306.5	191.7	116.3	92.5	73.9	63.5	45.0	37.7	19.9

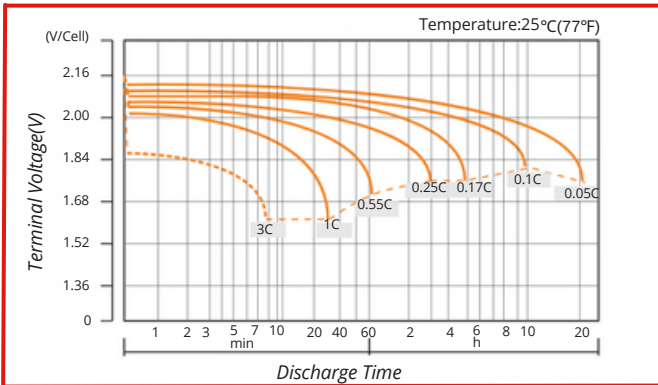
CONSTANT POWER DISCHARGE CHARACTERISTICS WPC(25°C)

F.V/Time	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	770.9	463.9	276.2	215.7	170.4	145.6	99.1	83.0	43.5
1.65V	747.9	450.5	268.7	209.9	166.4	142.4	98.2	82.1	42.8
1.70V	722.0	438.6	261.3	205.1	162.5	139.1	96.9	80.9	42.4
1.75V	697.2	425.1	253.4	199.8	158.9	136.1	95.8	80.0	41.9
1.80V	673.1	411.2	245.5	194.4	154.9	133.1	94.4	79.0	41.5
1.85V	585.5	371.1	226.2	180.5	144.6	124.5	88.8	74.5	39.5

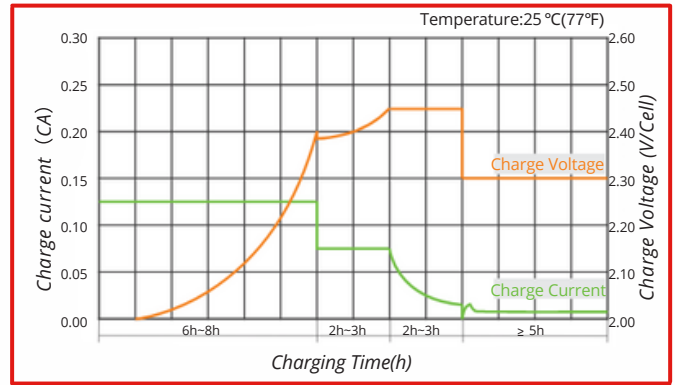
(Note)The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C20 should reach 95% after the first cycle and 100% after the third cycle.



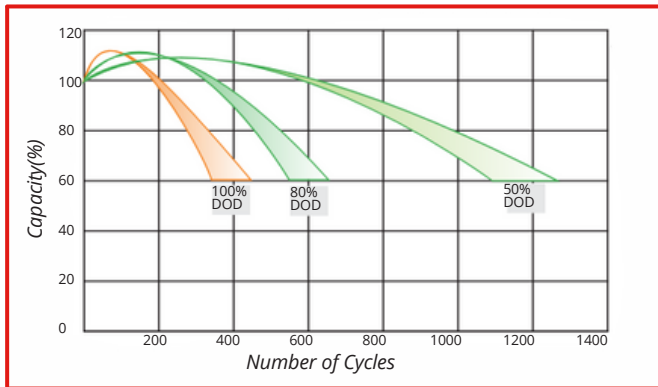
DISCHARGE CHARACTERISTICS CURVE



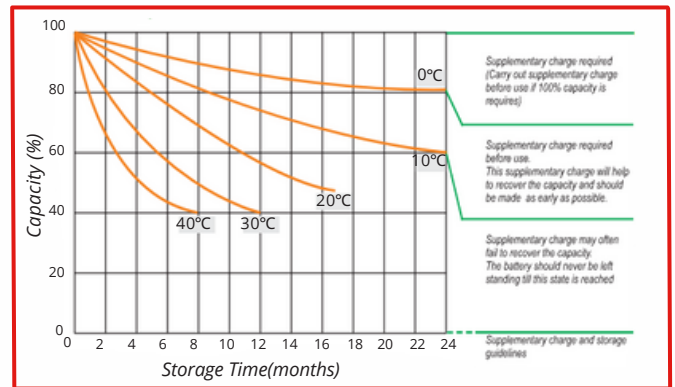
CHARGE CHARACTERISTICS CURVE FOR CYCLE USE



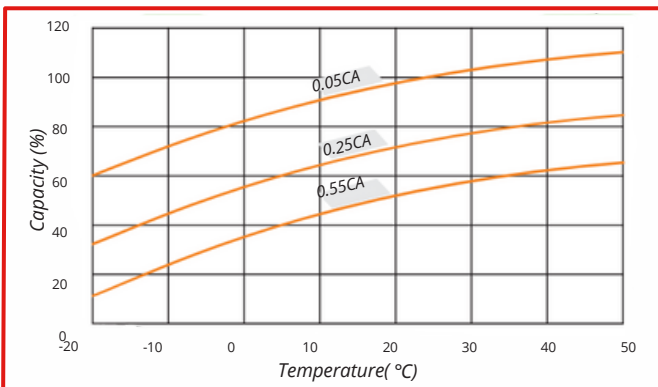
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



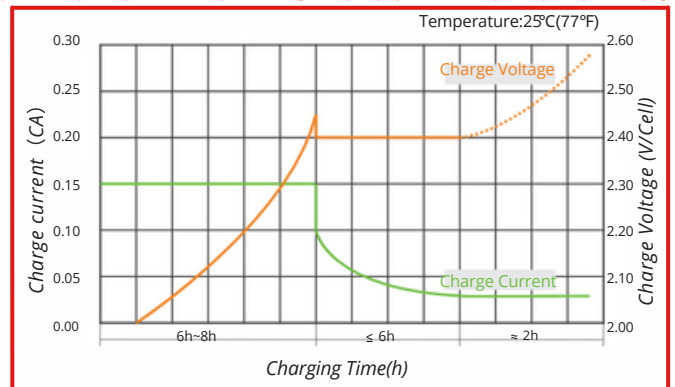
TEMPERATURE EFFECT ON BATTERY SELF-DISCHARGE



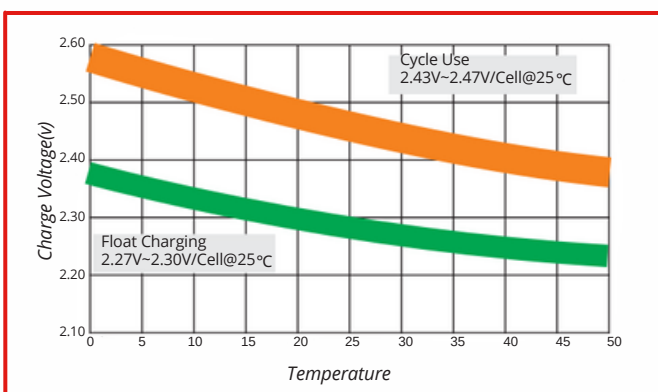
TEMPERATURE EFFECTS ON CAPACITY



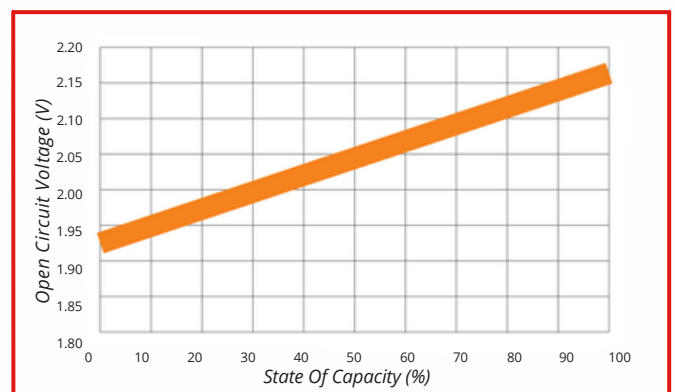
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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.

