



Specification Sheet

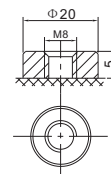
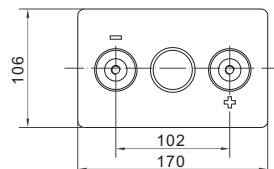
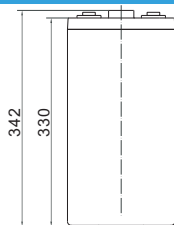
Long Life 2V VRLA Battery

FM2-200 (2V200Ah)

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	200Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 13.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 0.78 mΩ
Terminal	F10(M8)
Max. Discharge Current	1000A (5 sec)
Short Circuit Current	2650A
Design Life	20 years (Float charging)
Max. Charging Current	40 A
Reference Capacity	C1 119.8AH
	C3 159.4AH
	C5 176.8AH
	C10 201.0AH
Standby Use Voltage	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 V @ 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.



Dimensions



F10 TERMINAL

Length	170±2mm (6.69 inches)
Width	106±2mm (4.17 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

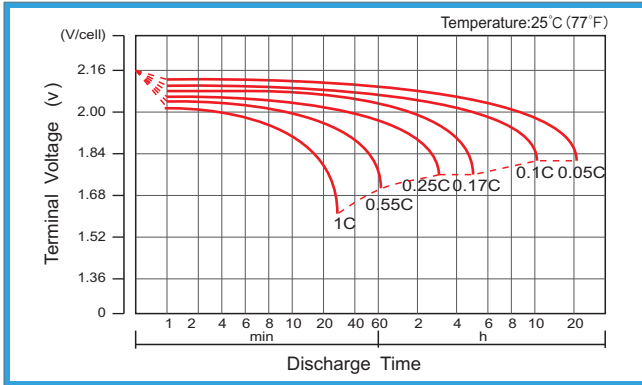
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	330.5	236.7	121.7	79.7	56.3	44.5	35.9	31.7	22.6
1.67V	320.8	231.3	120.9	78.4	55.4	43.8	35.4	31.4	21.4
1.70V	311.3	224.1	120.3	76.6	54.2	42.9	34.7	30.9	21.0
1.75V	291.4	214.8	119.8	74.3	53.1	41.7	35.4	30.4	20.6
1.80V	273.1	202.6	118.2	71.3	52.5	40.2	32.5	29.6	20.0
1.85V	250.8	187.1	115.2	67.3	49.7	38.1	30.9	28.6	19.2

Constant Power Discharge Characteristics : WPC (25°C)

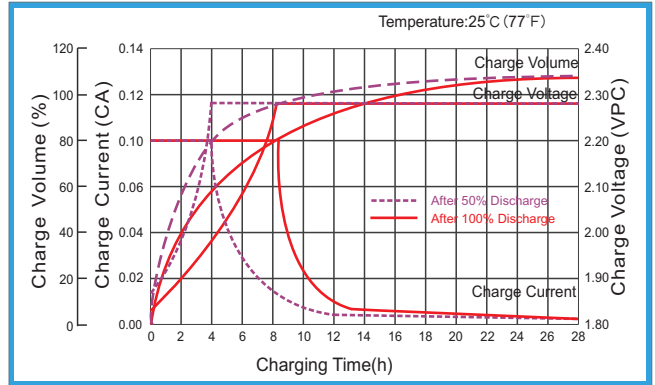
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	605.8	461.3	281.8	171.3	131.2	105.1	89.7	62.3	52.4
1.67V	598.7	455.9	278.6	169.8	130.1	104.3	88.9	61.8	52.0
1.70V	580.8	443.9	272.5	166.9	128.1	102.8	87.7	61.0	51.4
1.75V	558.8	428.3	264.5	163.1	125.5	100.8	86.0	59.9	50.6
1.80V	528.0	407.1	253.8	157.8	121.8	98.1	83.7	58.5	49.5
1.85V	486.9	380.1	239.5	150.8	116.9	94.3	80.7	56.6	48.0

(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 C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

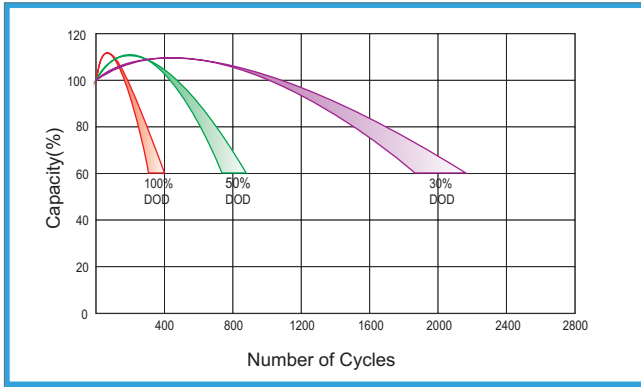
Discharge Characteristics Curve



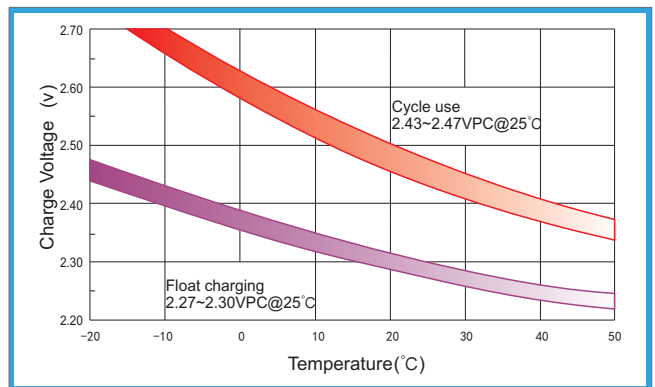
Charge Characteristic Curve For Standby Use



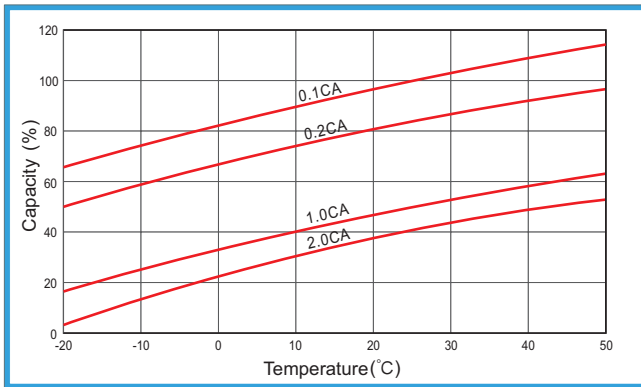
Cycle Life In Relation To Depth Of Discharge



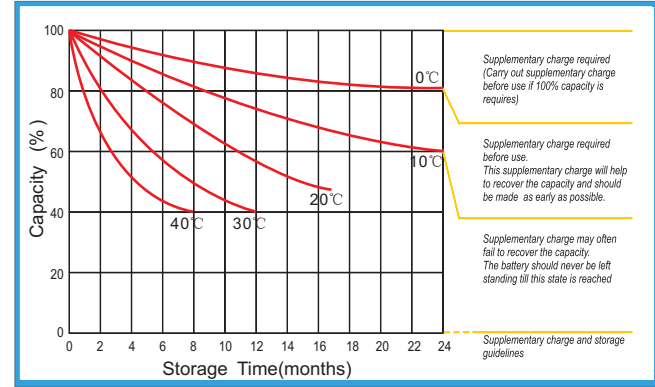
Relationship Between Charging Voltage And Temperature



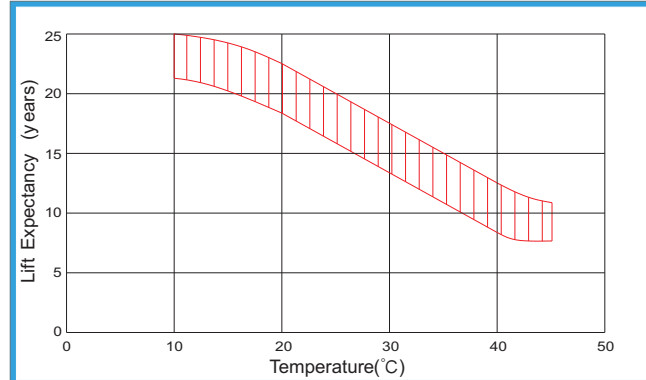
Temperature Effects On Capacity



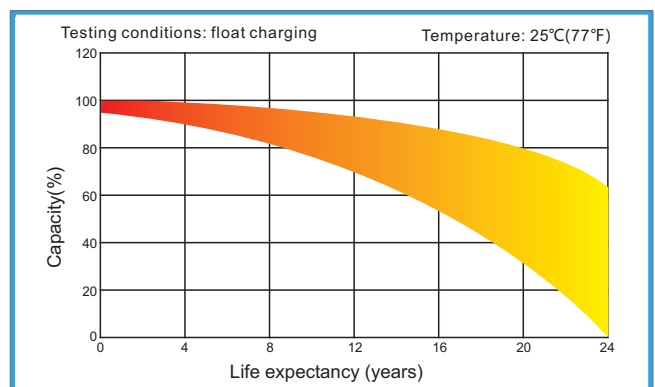
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



(Note) All above information shall be changed without prior notice, AxiWin reserves the right to explain and update the latest information