

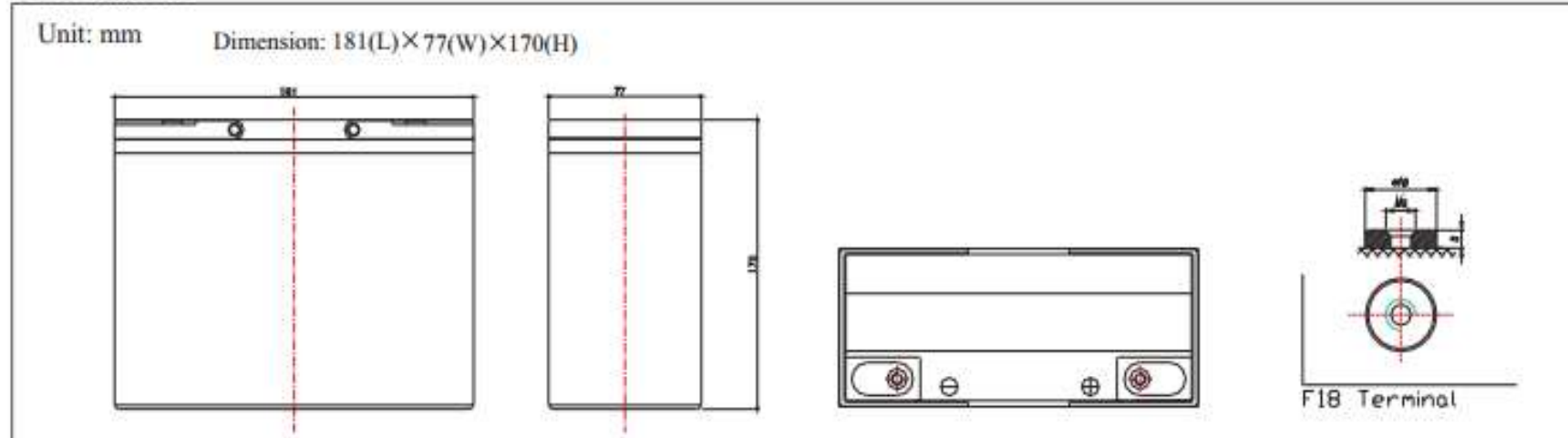
6-DZM-20 is AGM deep cycle battery, with specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, it can deliver more than 450 cycles at 100% DOD. It is applicable for electric bicycle, golf cart, electric wheelchair, etc..



**Specification**

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	20AH@2hr-rate to 1.75V per cell @ 25 °C
Weight	Approx. 6.9kg (Tolerance ± 3%)
Max. Discharge Current	200A(5sec)
Internal Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25 ± 5°C
Float Charging Voltage	13.6 to 13.8 VDC/unit Average at 25 °C
Recommended Maximum Charging	6.0A
Current Limit	
Equalization and Cycle service	14.6 to 14.8 VDC /unit Average at 25 °C
Self Discharge	YAHENG Vale Regulated Lead Acid(VRLA) Can be stored for more than 6 months at 25 °C. Self-discharge ratio less than 3% per month at 25 °C. Please charge batteries before using
Terminal	Terminal F18
Container Material	A.B.S. UL94-HB, Flammability resistance of UL94-V2 can be avail upon request

**Dimensions**



**Constant Current Discharge Characteristics: A(25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1H	2H	5H	10H	20H
9.60V	107.6	71	56	32.4	17.7	10.9	4.8	2.7	1.45
10.0V	103.2	68.2	54.5	31.9	17.6	10.8	4.8	2.6	1.4
10.5V	97.7	65.9	53	31.6	17.5	10.7	4.7	2.6	1.37
10.8V	88.2	61.9	50	30.9	17.2	10.6	4.7	2.6	1.32
11.1V	78.8	57.6	47	30.1	16.9	10.5	4.6	2.5	1.27

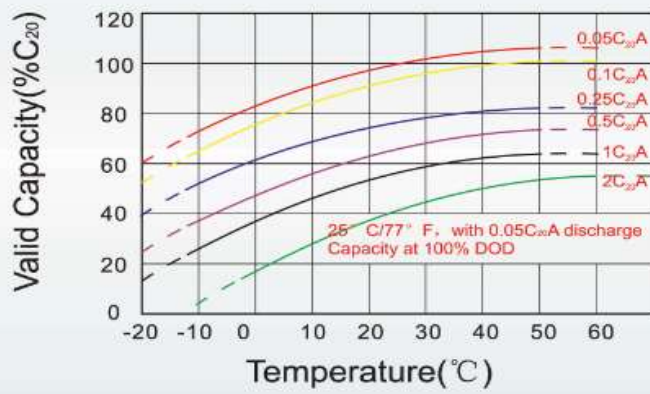
**Constant Power Discharge Characteristics: W(25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	45MIN	1H	2H	3H	5H
9.60V	190.5	125.8	104.1	63.5	48.8	35	21.4	14.8	9.5
10.0V	186.8	125.6	102.2	62.2	48.2	34.8	21.3	14.8	9.45
10.5V	180.7	121.8	100.2	61.7	47.9	34.5	21.2	14.7	9.4
10.8V	176.5	147.3	98.1	60.4	47.6	34.2	21.1	14.7	9.37
11.1V	172.4	143.6	96.3	59.6	47.3	33.9	21	14.6	9.35

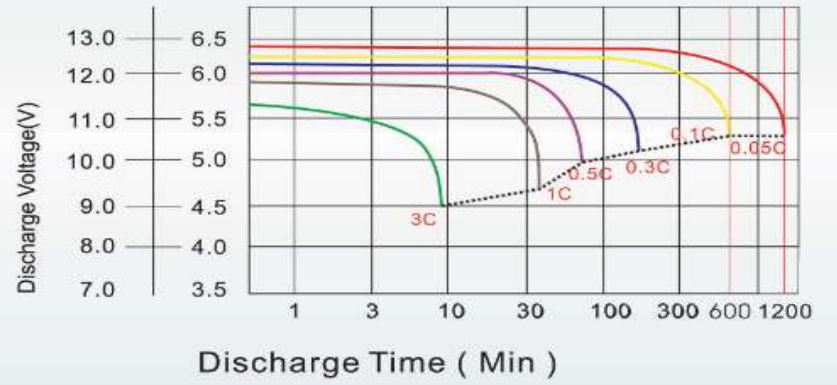
All mentioned values are average values.



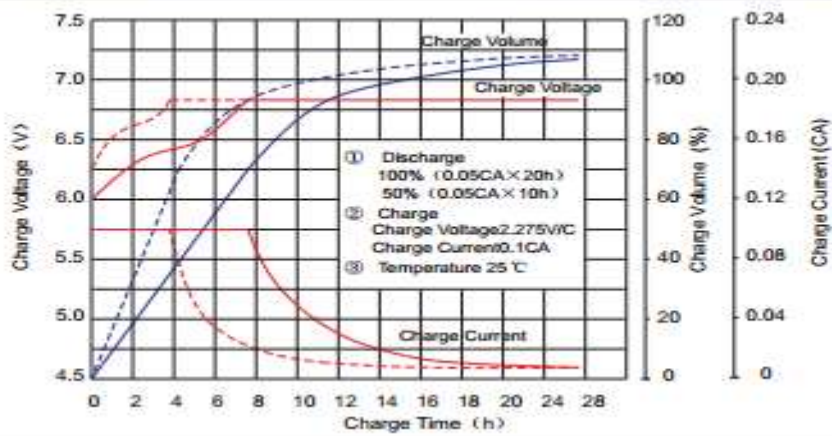
Temperature and Valid Capacity



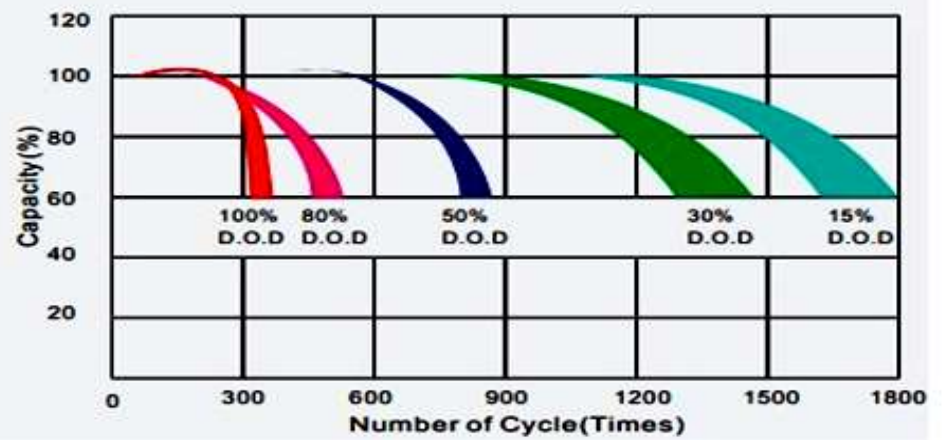
Discharge Characteristics at Various Rates @25°C/77°F



Charge characteristic curve for standby use



Life characteristics of cyclic use



**Discharge Current VS. Discharge Voltage**

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	A ≤ 0.2C	0.2C ≤ A ≤ 1.0C	≥ 1.0C

**Charge the batteries at least once every six months, if they are stored at 25°C**

Charging Method:

Constant Voltage	-0.2C*2h+2.4-2.45V/cell*24h, Max. Current 0.3CA
Constant Current	-0.2C*2h+0.1CA*12h
Fast	-0.2C*2h+0.3CA*4.0h

**Maintenance & Cautions**

**Float Service**

- ※ Every month, recommend inspection every battery voltage
  - ※ Every three months, recommend equalization charge for one time.
- Equalization charge method:
- Discharge: 100% rate capacity discharge.
- Charge: Max. Current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h
- ※ Effect of temperature on float charge voltage: -3mV/Cell.
  - ※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

**Contact us:**

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