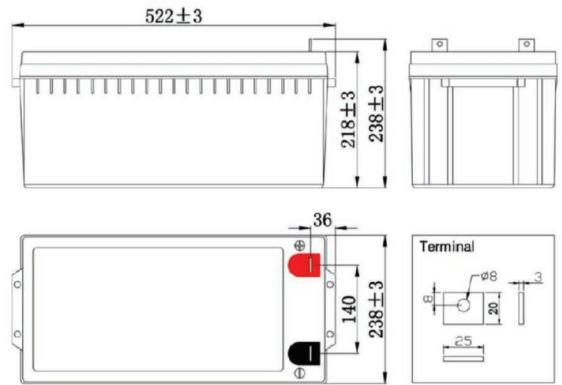


# DC12200

## 12V200Ah Sealed Lead Acid Battery

### Features

<b>Nominal Voltage (V)</b>	12V (6 cells in series)	
<b>Rated Capacity</b>	200.0Ah	(C <sub>10</sub> , 180V/cell)
<b>Dimensions (mm)</b>	Length	522 ± 3mm
	Width	238 ± 3mm
	Height	218 ± 3mm
	Total Height	238 ± 3mm
<b>Nominal Capacity @ 25°C (Ah)</b>	20 Hour rate (10.90A to 10.8 volts)	218.0Ah
	10 Hour rate (20.40A to 10.8 volts)	204.0Ah
	5 Hour rate (25.00A to 10.8 volts)	175.0Ah
	1 Hour rate (126.6A to 10.5Volts)	126.6Ah
<b>Approx. Weight</b>	60kg	
<b>Terminal</b>	T9	
<b>Max. Discharge Current</b>	1600A @ 25°C (5s)	
<b>Internal Resistance</b>	3.5mΩ @ 25°C (Full Charged Battery)	
<b>DOD 80%</b>	≥450 Cycles @ 25°C	
<b>Ambient Temperature</b>	Charge: -15°C ~ 50°C Discharge: -20°C ~ 60°C Storage: -20°C ~ 50°C	
<b>Container Material</b>	ABS, UL94-HB, UL94-V0, Optional	
<b>Self Discharge</b>	VRLA batteries 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.	



### Certification



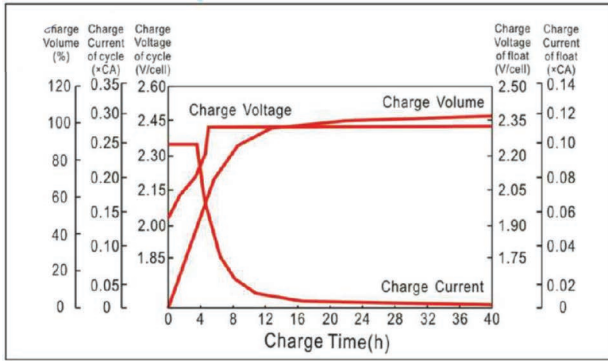
#### Constant Current Discharge Characteristics (A), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	680.0	453.0	362.8	225.0	130.0	77.70	55.20	39.96	24.84	21.20	11.60
1.70V/cell	610.0	417.0	345.0	219.0	128.2	76.70	54.20	36.08	24.44	20.90	11.30
1.75V/cell	550.0	385.0	329.0	213.0	126.6	75.70	53.60	35.54	24.20	20.70	11.10
1.80V/cell	490.0	351.0	309.0	204.8	124.0	74.66	53.00	35.00	23.84	20.40	10.90

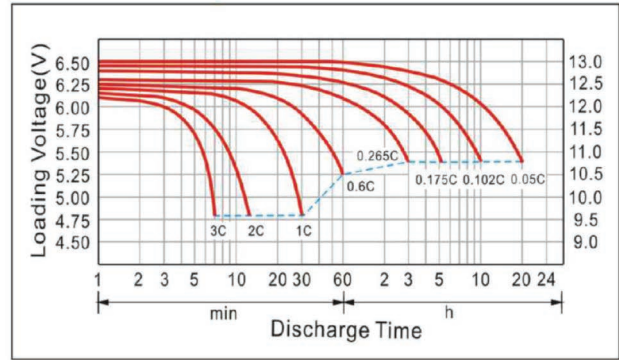
#### Constant Wattage Discharge Characteristics (Watt), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	1173.0	807.9	659.1	420.0	249.2	151.5	109.5	73.49	49.43	42.22	23.18
1.70V/cell	1077.7	757.6	635.4	412.5	246.8	150.2	107.8	71.92	48.76	41.73	22.60
1.75V/cell	985.4	709.0	611.4	404.7	244.8	148.9	106.8	71.02	48.40	41.40	22.20
1.80V/cell	890.2	655.2	579.4	392.5	240.8	148.1	105.9	70.00	47.68	40.80	21.80

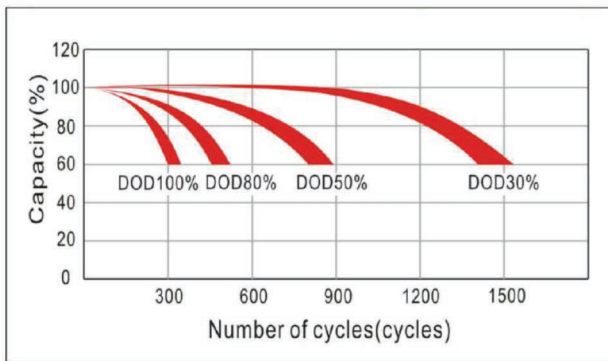
### Charge Characteristics Curve



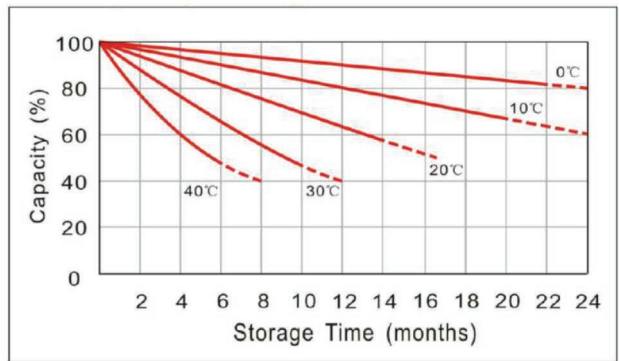
### Discharge Characteristics Curve



### Cycle service life in relation to depth of discharge



### Capacity Storage Characteristics



#### Capacity factors with Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	50°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

## Maintenance & Cautions

#### Charging Procedure

Application	Charging method	Charge voltage at 25°C	Temperature compensation coefficient of charging voltage	Max. charging current	Temperature
For stanby power source	Constant voltage charging (with current restriction)	2.25~2.30 V/cell	-3mV/°C/cell	0.2CA	-15~50°C
For cycle service		2.40~2.45 V/cell	-4mV/°C/cell	0.3CA	

#### Float service

Every month, recommend inspection every battery voltage.

Every three months, recommend equalization charge for one tiem. Equalization charge method: Step 1: Discharge: 100% rate capacity discharge. Step 2: Charge: Max. current 0.3CA, constant voltage 2.40~2.45V/cell charge 24h.

#### Cycle service

Avoid battery over discharge, especially battery series connection use.

Charged with recommended voltage, ensure battery can be full recharged.

Ingerneral, recharge capacity should be 1.1~1.15 times discharge capacity.

**Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.**

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

Constant Voltage: -0.2C x 2h+2.4~2.45V/cell x 24h, Max. current 0.25CA

Constant Voltage: -0.2C x 2h+0.1C x 12h

Fast: -0.2C x 2h+0.3C x 4h

#### Terminal of torque:

Bolt	M5	M6	M8
Termnial	T3, T10	T4, T7, T11, T12, T13	T5, T6, T8, T9, T14
Torque	6~7N.m	8~10N.m	10~12N.m