



# General VRLA Battery

## 6FM200G (12V200Ah)

The LONGWAY General Series middle batteries ( more than 24Ah) are designed and developed using AGM technology and valve controlled sealing technology. They can meet conventional performance requirements, with a designed float charging life of over 8 years. The valve controlled non-spillable structure design allows safe use in any direction and is certified by sea and air freight. The battery performance also meets international standards. such as IEC60896-2012, UL1989.etc.



### General Feature

- High reliability, safe without leakage, can be used in any position
- Excellent recovery performance after deep discharge
- Environmentally friendly products.  
Meet EU battery directive RoHS and REACH standards
- Maintenance free
- Widely applicable temperature range, can be used at -20 °C~60°C
- Low self-discharge rate. The average monthly self-discharge rate of the battery is less than 2.5%  
(It is recommended to recharge after storage for 6 months or before use)

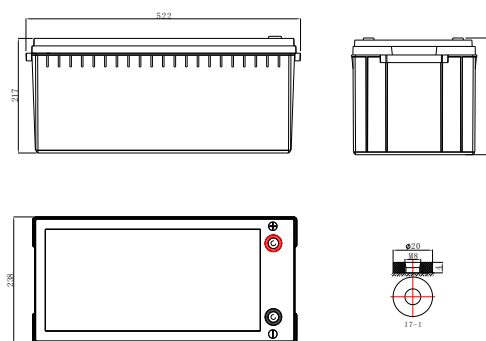
### Applications

- Emergency lights; Alarm system
- Electrical test equipment; communication Equipment
- Uninterruptible power supply; Fire & Security
- Electric toys; Control instruments
- Portable Movie & Video lights
- Electric tools; Solar system
- Robots and control machines and other

### Performance

Nominal Voltage	12V (6cells)
Capacity	@25°C
10hr Rate (20.0A)	190 Ah @ to 1.75V/cell
5hr Rate (34.0A)	170 Ah @ to 1.70V/cell
3hr Rate (50.0 A)	150 Ah @ to 1.60V/cell
Weight	Approx (58.0±3%)kg ( 127.9lbs )
Internal Resistance	Approx 4.00mΩ fully charged @25°C
Maximum Discharge Current	400A(3sec)
Terminal	I7-1
Operating Temperature Range	Discharge:-20°C~60°C; Charge:0°C~50°C Storage:-20°C~40°C
Container Material	ABS(UL94 HB)/UL94-V0 Optional

### Dimensions



Length	522mm	20.6inch
Width	238mm	9.37inch
Height	217mm	8.54inch
Total height	222mm	8.74inch

### Battery use

#### Cycle use

1. Limit the initial charging current to no more than 50A
2. Keep charging voltage at 14.4-15.0V/unit.and continue charging at least 3 hours after the charging current reduces to 4.0A to ensure full charge
3. The compensation coefficient of charging voltage and temperature is -5mv/cell/°C

#### Float use

1. Limit the initial charging current to no more than 50A
2. Keep charging voltage at 13.5-13.8V/unit.When the voltage reaches the constant voltage,the current gradually decreases until the battery is fully charged and continues to charge
3. The compensation coefficient of charging voltage and temperature is -3mv/cell/°C



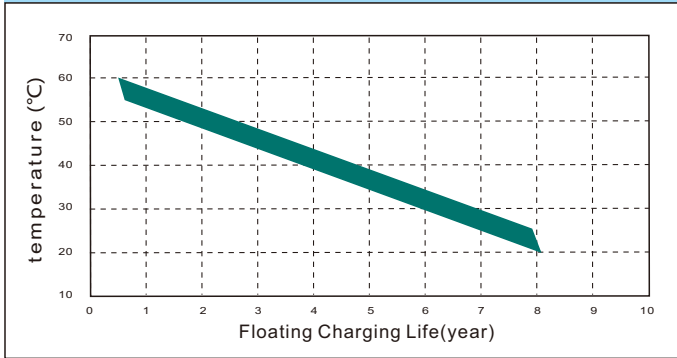
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 Tel:0595-68782266 Fax:0595-68782222 Website: <http://www.longwaybattery.com>  
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 KY-IOP-LW12-200B B0. May 2023

Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery. Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.

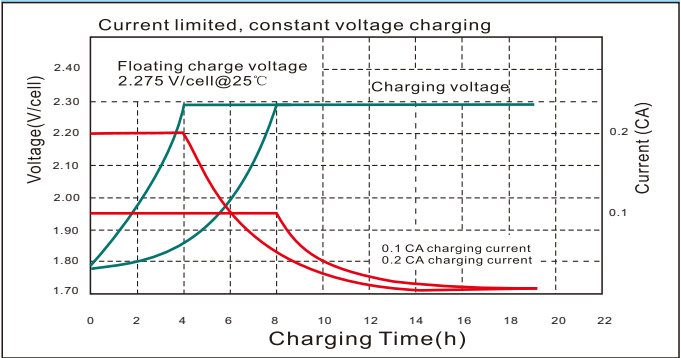


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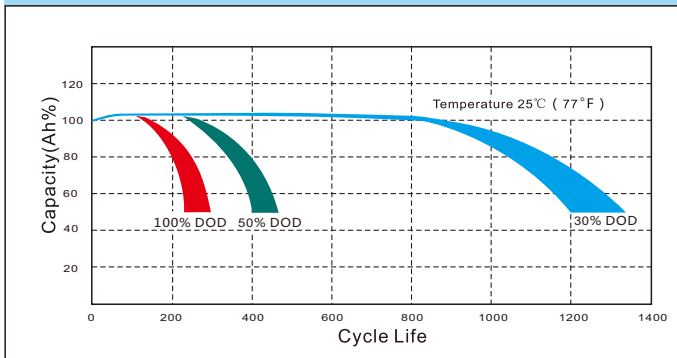
## Floating Charging Life VS Temperature



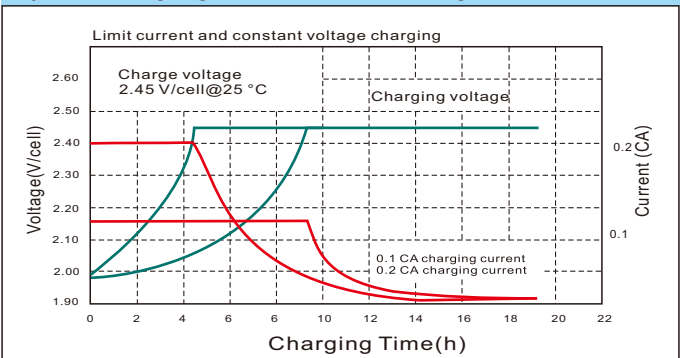
## Floating Charging Characteristics Diagram



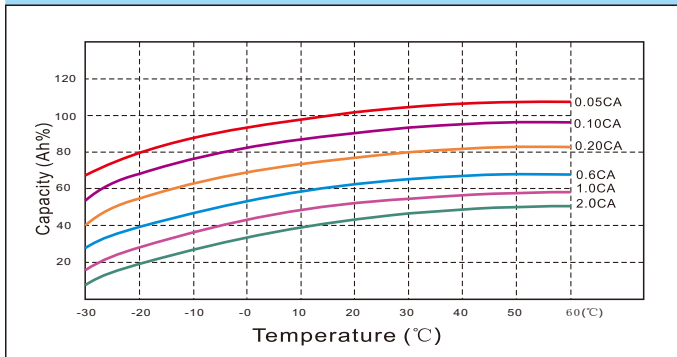
## Cycle Life



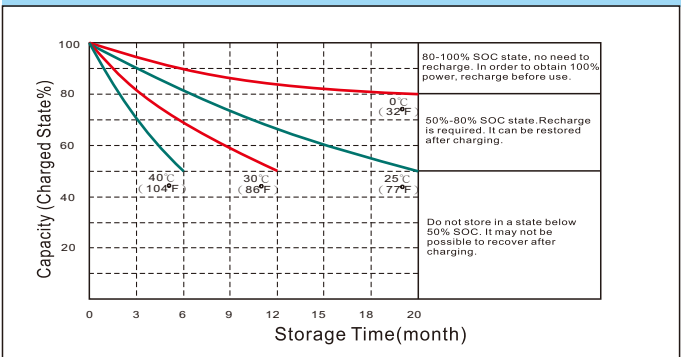
## Cycle charging characteristic diagram



## Temperature and capacity characteristics



## Self-discharge characteristic



## Constant current characteristics(A,25°C )

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	540	460	350	206	112	69.0	50.8	34.9	23.3	20.3	10.5
9.9	524	446	343	202	110	68.7	50.5	34.7	23.2	20.2	10.4
10.2	513	437	336	198	108	68.0	50.0	34.4	23.1	20.1	10.4
10.5	483	423	326	192	104	67.3	49.5	34.1	23.1	20.1	10.3
10.8	443	411	319	188	102	66.6	49.0	33.7	23.0	20.0	10.3

## Constant power discharge characteristic ( W,25°C )

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	5832	5023	3990	2311	1277	799.3	596.8	412.7	280.1	242.4	125.5
9.9	5657	4873	3766	2265	1251	795.3	593.9	410.7	278.8	241.2	124.8
10.2	5540	4772	3689	2219	1226	787.4	588.0	406.6	277.7	240.2	124.3
10.5	5220	4621	3574	2150	1187	779.6	582.1	402.5	276.8	239.5	124.0
10.8	4782	4486	3505	2108	1164	771.7	576.2	398.5	276.0	238.8	123.6



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