



General VRLA Battery

3FM200G (6V200Ah)

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)

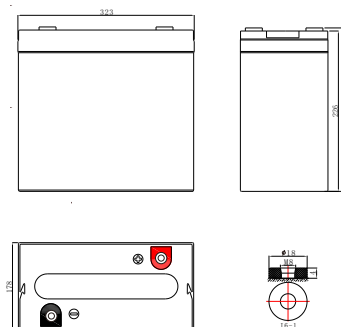
Applications

- 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	6V (3cells)
Capacity	@25°C
10hr Rate (20.0A)	200 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 (29.2±3%)kg (64.37lbs)
Internal Resistance	Approx 1.60mΩ fully charged @25°C
Maximum Discharge Current	400A(3sec)
Terminal	I6-1
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	323mm	12.72inch
Width	178mm	7.01inch
Height	226mm	8.90inch
Total height	231mm	9.09inch

Battery use

Cycle use

1. Limit the initial charging current to no more than 50A
2. Keep charging voltage at 7.20-7.50V/unit.and continue charging at least 3 hours after the charging current reduces to4.0A 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 6.75-6.90V/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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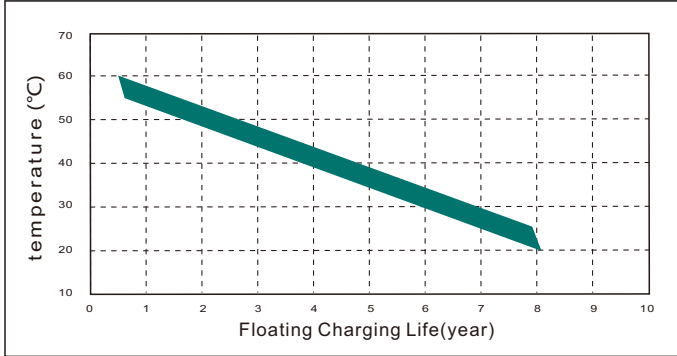
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery. Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.



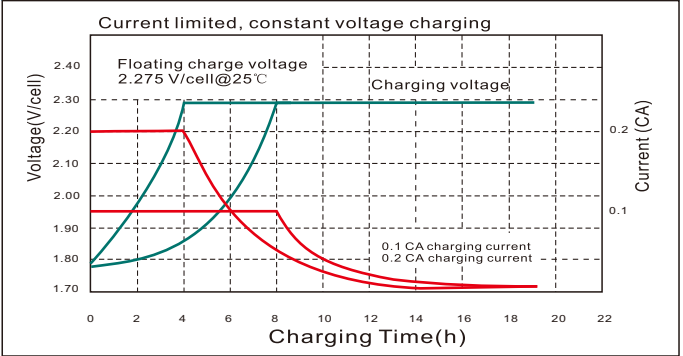
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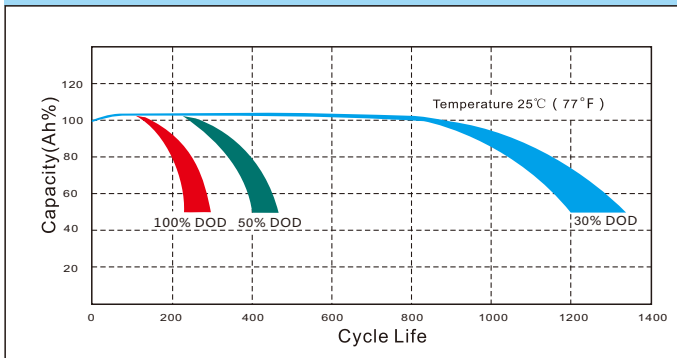
Floating Charging Life VS Temperature



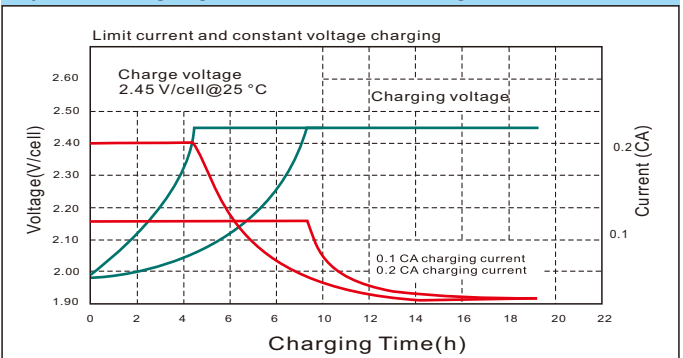
Floating Charging Characteristics Diagram



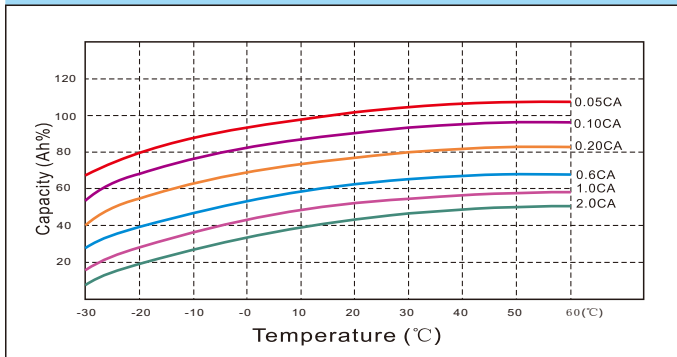
Cycle Life



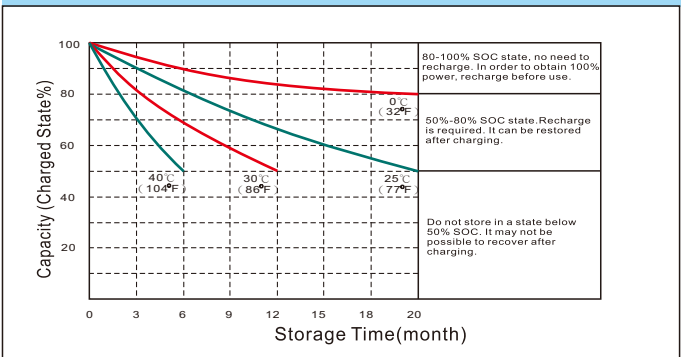
Cycle charging characteristic diagram



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
4.80	550.0	460.0	350.0	206.0	112	73.1	52.8	35.5	22.3	20.3	11.2
4.95	533.5	446.2	339.5	199.8	108.6	72.4	52.3	35.2	22.2	20.2	11.1
5.10	522.5	437.0	336.0	197.8	107.5	72.0	52.0	35.0	22.1	20.1	11.1
5.25	506.0	423.2	322.0	189.5	103.0	71.3	51.5	34.7	22.0	20.0	11.0
5.40	491.2	410.8	319.2	187.9	102.1	70.6	51.0	34.3	22.0	20.0	11.0

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
4.80	3069	2594	1995	1180	648	427.5	313.5	212.1	134.0	121.8	67.0
4.95	2977	2517	1935	1145	629	423.3	310.4	210.0	133.3	121.2	66.7
5.10	2916	2465	1915	1133	623	421.2	308.9	209.0	132.8	120.7	66.4
5.25	2823	2387	1835	1086	597	417.0	305.8	206.9	132.3	120.2	66.1
5.40	2741	2317	1819	1077	591	412.8	302.7	204.8	132.0	120.0	66.0



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