



General VRLA Battery

6FM250G (12V250Ah)

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 (25.0A)	233 Ah @ to 1.75V/cell
5hr Rate (42.5A)	200 Ah @ to 1.70V/cell
3hr Rate (62.5 A)	187 Ah @ to 1.60V/cell
Weight	Approx (71.0±3%)kg (156.5lbs)
Internal Resistance	Approx 3.5mΩ 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	521mm	20.5inch
Width	269mm	10.6inch
Height	220mm	8.66inch
Total height	224mm	8.82inch

Battery use

Cycle use

1. Limit the initial charging current to no more than 62.5A
2. Keep charging voltage at 14.4-15.0V/unit.and continue charging at least 3 hours after the charging current reduces to5.0A 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 62.5A
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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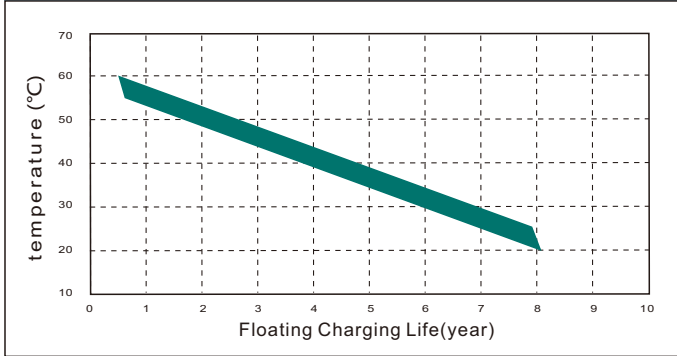
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery. Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.



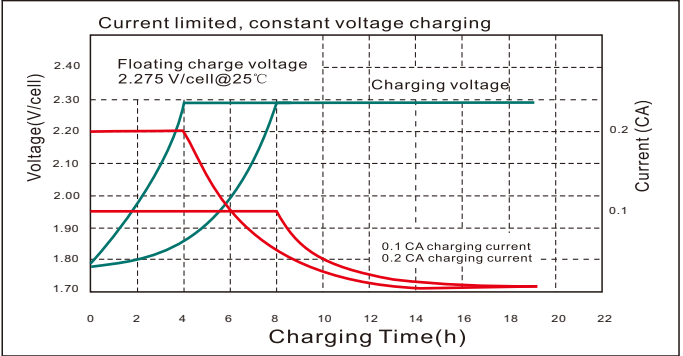
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Floating Charging Life VS Temperature



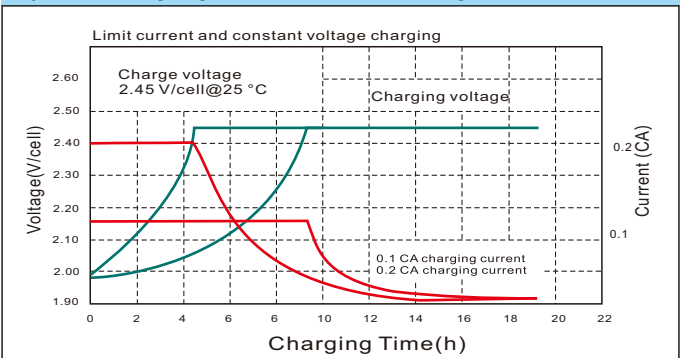
Floating Charging Characteristics Diagram



Cycle Life



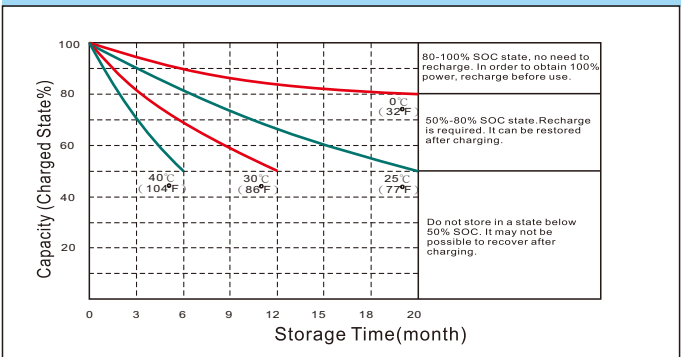
Cycle charging characteristic diagram



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	675	575	438	258	140	86.3	63.4	43.6	29.2	25.4	13.1
9.9	655	558	429	252	137	85.9	63.1	43.4	29.0	25.3	13.0
10.2	641	546	420	247	134	85.0	62.5	43.0	28.9	25.2	13.0
10.5	604	529	407	239	130	84.2	61.9	42.6	28.8	25.1	12.9
10.8	554	513	399	235	128	83.3	61.3	42.1	28.8	25.0	12.9

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	7290	6279	4988	2889	1596	999.1	746.0	515.9	350.2	303.0	156.8
9.9	7071	6091	4708	2831	1564	994.1	742.4	513.3	348.5	301.5	156.0
10.2	6926	5965	4612	2774	1532	984.3	735.0	508.3	347.1	300.3	155.4
10.5	6525	5777	4467	2687	1484	974.5	727.7	503.2	346.0	299.4	155.0
10.8	5978	5607	4381	2635	1456	964.6	720.3	498.1	345.0	298.5	154.5



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