



General VRLA Battery

6FM160G (12V160Ah)

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)

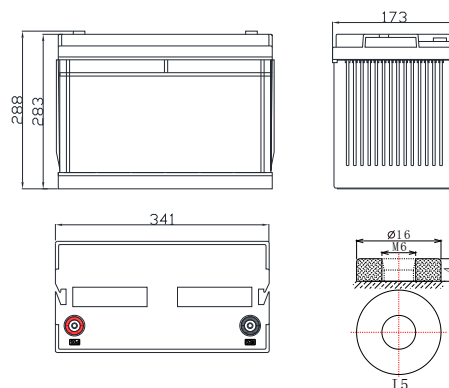
Applications

- 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 (16.0A) | 160.0 Ah @ to 1.75V/cell |
| 5hr Rate (27.2A) | 136.0 Ah @ to 1.70V/cell |
| 3hr Rate (40.0 A) | 120.0 Ah @ to 1.60V/cell |
| Weight | Approx (45.0±3%)kg (99.20lbs) |
| Internal Resistance | Approx 3.30mΩ fully charged @25°C |
| Maximum Discharge Current | 400A(3sec) |
| Terminal | I5 |
| 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 | 341mm | 13.43inch |
| Width | 173mm | 6.81inch |
| Height | 288mm | 11.14inch |
| Total height | 283mm | 11.34inch |

Battery use

Cycle use

1. Limit the initial charging current to no more than 40A
2. Keep charging voltage at 14.4-15.0V/unit.and continue charging at least 3 hours after the charging current reduces to 3.2A 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 40A
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



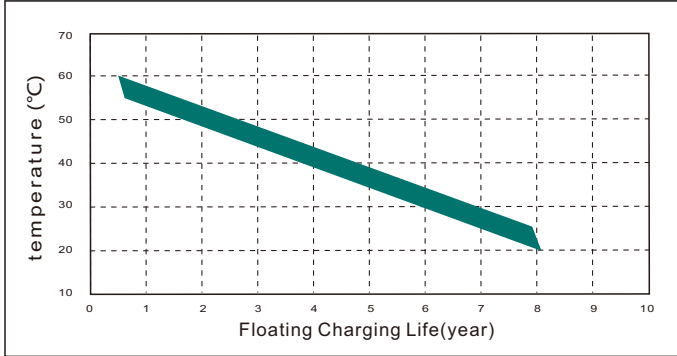
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 KY-IOP-LW12-160 B0. May 2023

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.

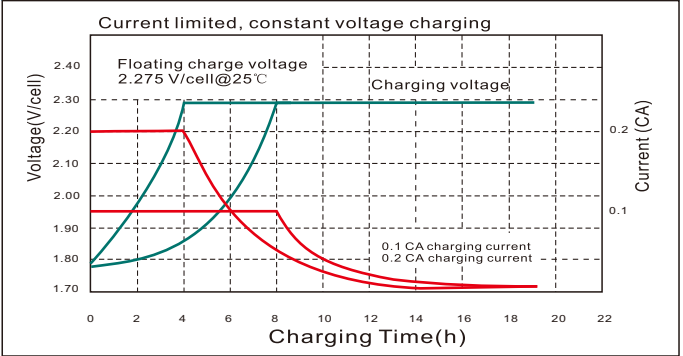


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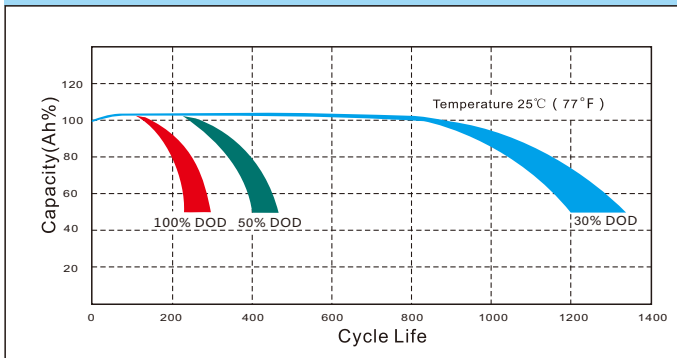
Floating Charging Life VS Temperature



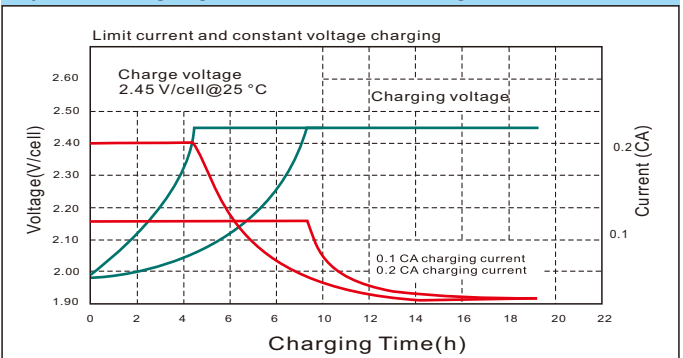
Floating Charging Characteristics Diagram



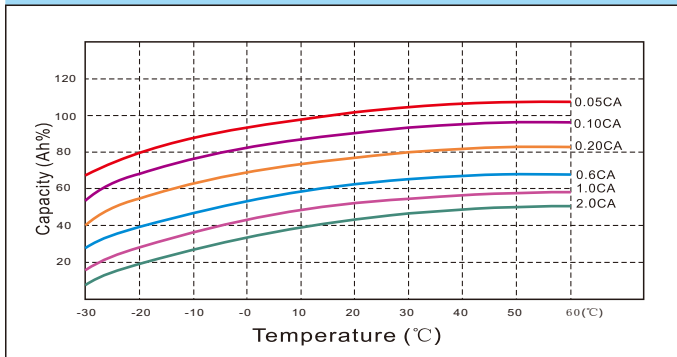
Cycle Life



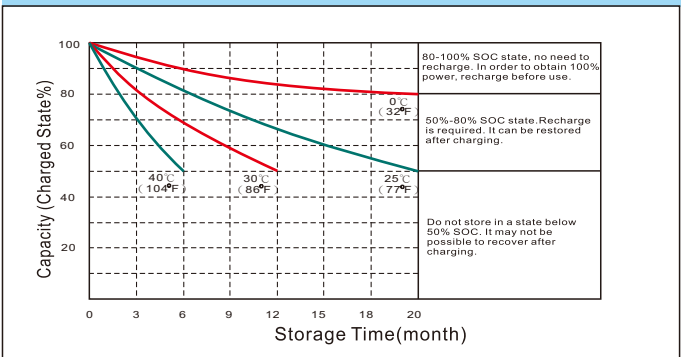
Cycle charging characteristic diagram



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 |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 9.60 | 592.0 | 384.0 | 272.0 | 160.0 | 96.0 | 73.6 | 58.46 | 41.41 | 27.61 | 14.94 | 8.12 |
| 9.90 | 574.2 | 372.5 | 263.8 | 155.2 | 93.1 | 72.1 | 57.89 | 41.00 | 27.34 | 14.87 | 8.08 |
| 10.2 | 562.4 | 364.8 | 261.1 | 153.6 | 92.2 | 70.7 | 57.60 | 40.80 | 27.20 | 14.81 | 8.05 |
| 10.5 | 544.6 | 353.3 | 250.2 | 147.2 | 88.3 | 69.2 | 57.02 | 40.39 | 26.93 | 14.75 | 8.02 |
| 10.8 | 528.7 | 342.9 | 248.1 | 145.9 | 87.6 | 67.7 | 56.45 | 39.98 | 26.66 | 14.72 | 8.00 |

Constant power discharge characteristic (W,25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 90min | 2h | 3h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 9.60 | 6607 | 4332 | 3101 | 1834 | 1112 | 861 | 684.0 | 492.0 | 329.6 | 179.3 | 97.4 |
| 9.90 | 6409 | 4202 | 3008 | 1779 | 1078 | 844 | 677.3 | 487.1 | 326.4 | 178.4 | 97.0 |
| 10.2 | 6276 | 4115 | 2977 | 1760 | 1067 | 827 | 673.9 | 484.7 | 324.8 | 177.7 | 96.6 |
| 10.5 | 6078 | 3985 | 2853 | 1687 | 1023 | 809 | 667.2 | 479.9 | 321.5 | 177.0 | 96.2 |
| 10.8 | 5900 | 3868 | 2828 | 1672 | 1014 | 792 | 660.4 | 475.0 | 318.3 | 176.6 | 96.0 |



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