



# General VRLA Battery

## 6FM60G (12V60Ah)

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 (6.00A)	60.0Ah @ to 1.75V/cell
5hr Rate (9.50A)	47.5Ah @ to 1.70V/cell
3hr Rate (15.0A)	45.0Ah @ to 1.60V/cell
Weight	Approx (17.7±3%)kg ( 39.02lbs )
Internal Resistance	Approx 6.50mΩ fully charged @25°C
Maximum Discharge Current	300A(3sec)
Terminal	I4-1
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	258mm	10.2inch
Width	169mm	6.65inch
Height	175mm	6.89inch
Total height	180mm	7.09inch

### Battery use

#### Cycle use

1. Limit the initial charging current to no more than 15A
2. Keep charging voltage at 14.4-15.0V/unit.and continue charging at least 3 hours after the charging current reduces to 1.2A 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 15A
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-LW12-60B B0. May 2023

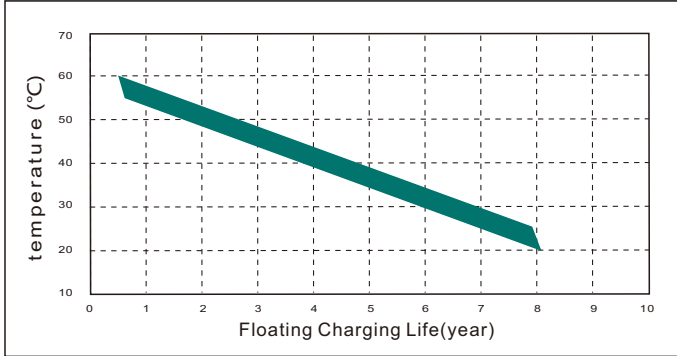
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery. Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.



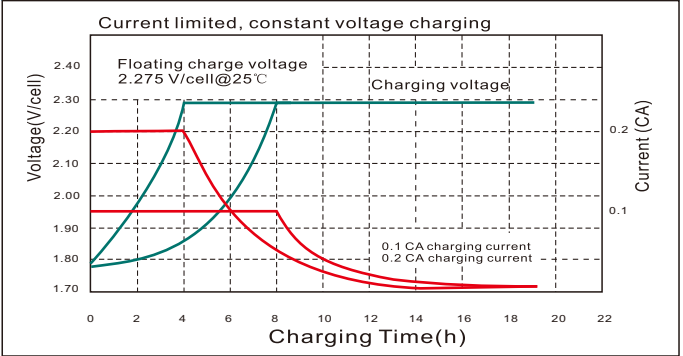
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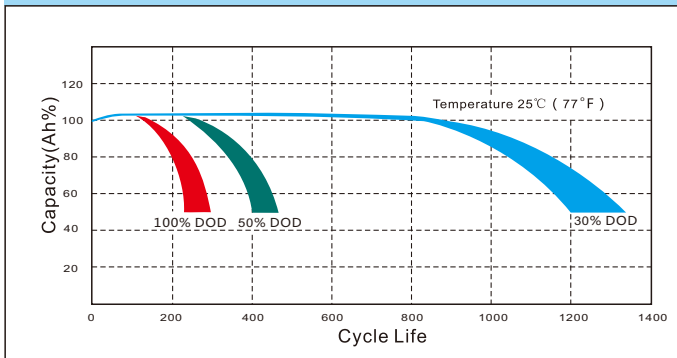
### Floating Charging Life VS Temperature



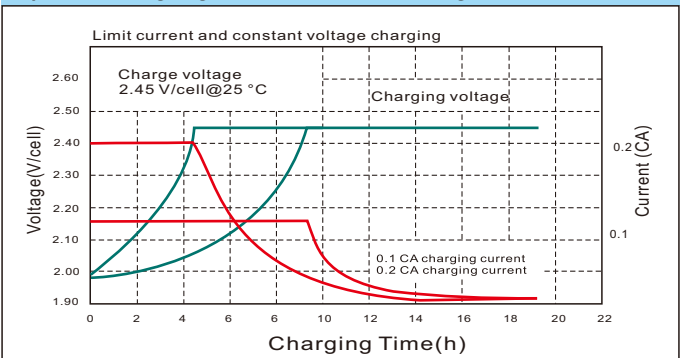
### Floating Charging Characteristics Diagram



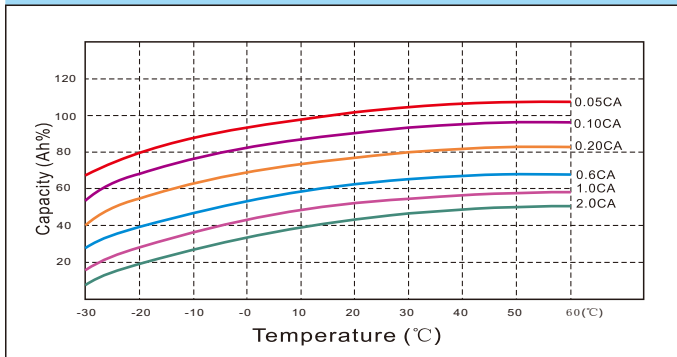
### Cycle Life



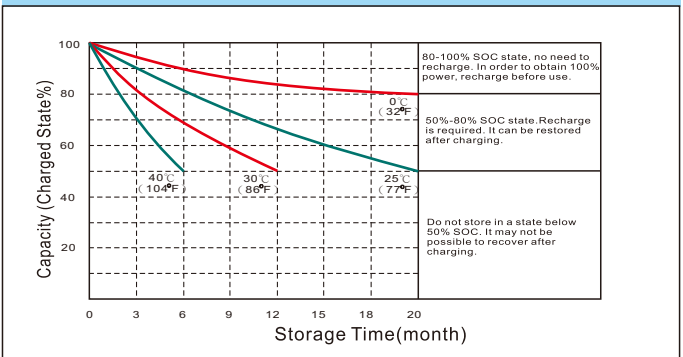
### Cycle charging characteristic diagram



### 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	162	138	105	61.8	33.6	20.7	15.2	10.5	7.00	6.09	3.14
9.9	157	134	103	60.6	32.9	20.6	15.2	10.4	6.97	6.06	3.12
10.2	154	131	101	59.3	32.3	20.4	15.0	10.3	6.94	6.04	3.11
10.5	145	127	97.7	57.5	31.2	20.2	14.9	10.2	6.92	6.02	3.10
10.8	133	123	95.8	56.4	30.6	20.0	14.7	10.1	6.90	6.00	3.09

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

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	1750	1507	1197	693.4	383.0	239.8	179.0	123.8	84.04	72.71	37.64
9.9	1697	1462	1130	679.5	375.4	238.6	178.2	123.2	83.63	72.36	37.45
10.2	1662	1432	1107	665.7	367.7	236.2	176.4	122.0	83.30	72.07	37.30
10.5	1566	1386	1072	644.9	356.2	233.9	174.6	120.8	83.05	71.85	37.19
10.8	1435	1346	1051	632.4	349.3	231.5	172.9	119.5	82.80	71.64	37.08



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