General VRLA Battery
FM3000G (2V3000Ah)

The LONGWAY General Series 2V batteries (100-3000Ah) 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 15 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 ℃~60℃
- 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)

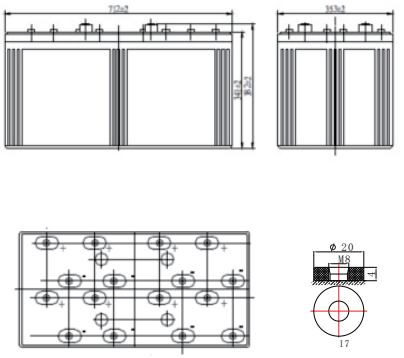
Applications

- Electrical power system
- Solar system
- Electrical test equipment
- Telecom & Network Equipment
- UPS, fire alarm & safe-protection
- Emergency lighting device; Alarm system
- Robots and control machines and other

Performance

Nominal Voltage	2V (1cell)
Capacity	@25℃
10hr Rate (300A)	3000Ah @ to 1.75V/cell
5hr Rate (510A)	2550Ah @ to 1.70V/cell
3hr Rate (750A)	2250Ah @ to 1.60V/cell
Weight	Approx (175±3%)kg (385.8lbs)
Internal Resistance	Approx 0.10mΩ fully charged @25℃
Maximum Discharge Current	400A(3sec)
Terminal	I7
Operating Temperature Range	Discharge:-20℃~60℃;Charge:0℃~50℃ Storage:-20℃~40℃
Container Material	ABS(UL94 HB)/UL94-V0 Optional

Dimensions



Length	712mm	28.0inch
Width	353mm	13.9inch
Height	341mm	13.4inch
Total height	382mm	15.0inch

Battery use

Cycle use

1. Limit the initial charging current to no more than 600A
2. Keep charging voltage at 2.40-2.50V/unit, and continue charging at least 3 hours after the charging current reduces to 60A toensure full charge
3. The compensation coefficient of charging voltage and temperature is -5mv/cell /℃

Float use

1. Limit the initial charging current to no more than 600A
2. Keep charging voltage at 2.25-2.30V/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 /℃

Kaiying Power Supply & Electrical Equip Co., Ltd Email: sales@longwaybattery.com
Tel:0595-68782266 Fax:0595-68782222 Website: http://www.longwaybattery.com
Add: Kaiying Industrial Area, Chengxiang Town, Anxi, Quanzhou, Fujian Province, China
KY-IOP-LW2-3000 B0. May 2023

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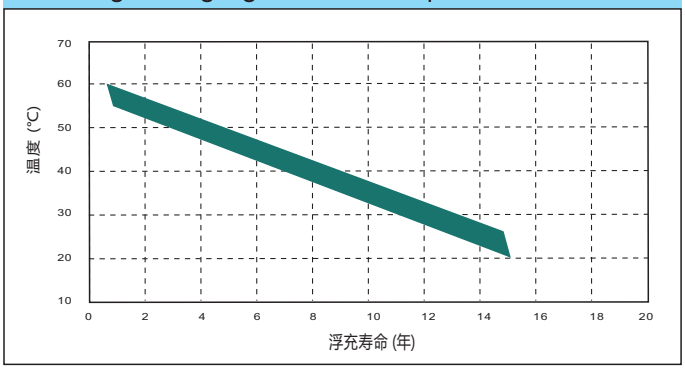
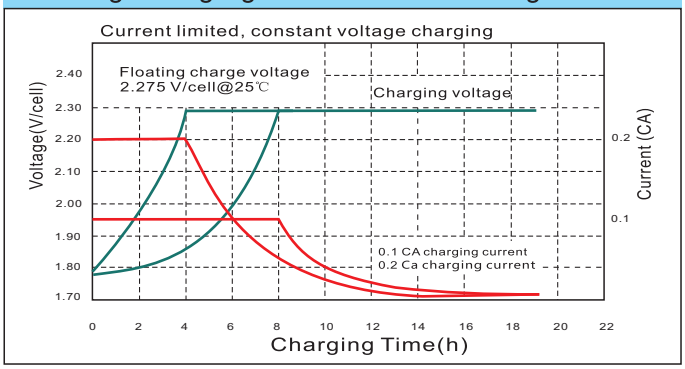
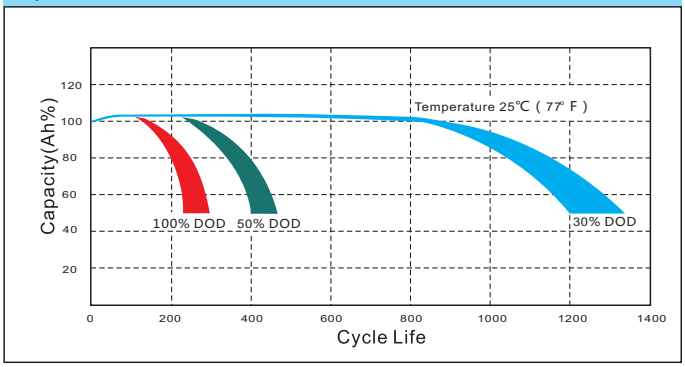
Floating Charging Life VS Temperature



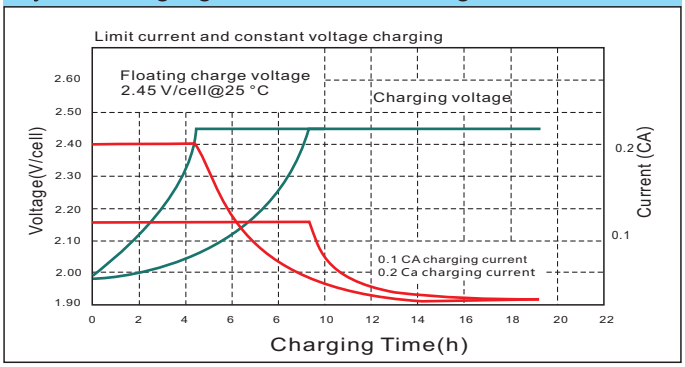
Floating Charging Characteristics Diagram



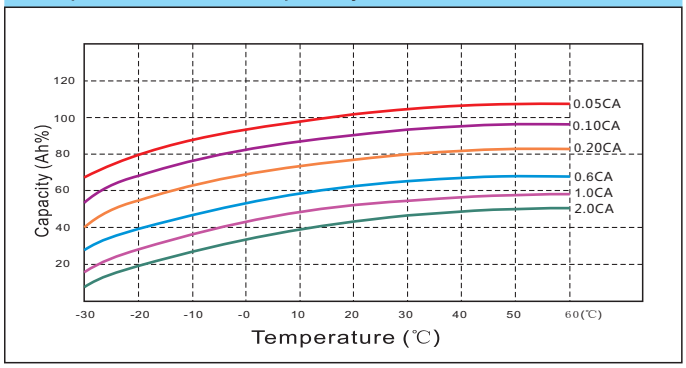
Cycle Life



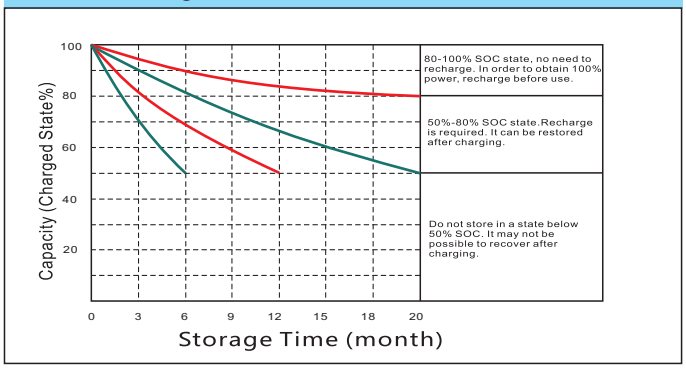
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25℃)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	100h
1.60	4050	3150	1680	1111	801	563	396	319.7	159.9	38.06
1.65	3969	3087	1646	1106	797	561	394	319.1	159.6	37.99
1.70	3888	3024	1613	1100	793	558	392	316.9	158.4	37.73
1.75	3767	2930	1562	1095	789	555	390	315.9	158.0	37.61
1.80	3694	2873	1532	1073	773	544	371	315.0	157.5	37.50

Constant power discharge characteristic (W,25℃)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	100h
1.60	7290	5828	3217	2045	1582	1121	789.7	639.5	319.7	76.13
1.65	7144	5711	3153	2035	1574	1115	785.8	638.2	319.1	75.98
1.70	6998	5594	3089	2025	1566	1110	781.9	633.8	316.9	75.45
1.75	6780	5420	2992	2015	1558	1104	778.1	631.9	315.9	75.23
1.80	6648	5315	2934	1975	1527	1082	739.1	630.0	315.0	75.00

ISO 9001 MH46789 CE

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