



General VRLA Battery

6FM230G (12V230Ah)

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 (23.0A)	230 Ah @ to 1.75V/cell
5hr Rate (39.1A)	195 Ah @ to 1.70V/cell
3hr Rate (57.5 A)	172 Ah @ to 1.60V/cell
Weight	Approx (65.0±3%)kg (143.3lbs)
Internal Resistance	Approx 3.5mΩ fully charged @25°C
Maximum Discharge Current	400A(3sec)
Terminal	F21
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	203mm	7.99inch
Total height	229mm	9.01inch

Battery use

Cycle use

1. Limit the initial charging current to no more than 57.5A
2. Keep charging voltage at 14.4-15.0V/unit.and continue charging at least 3 hours after the charging current reduces to 4.6A 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 57.5A
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



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

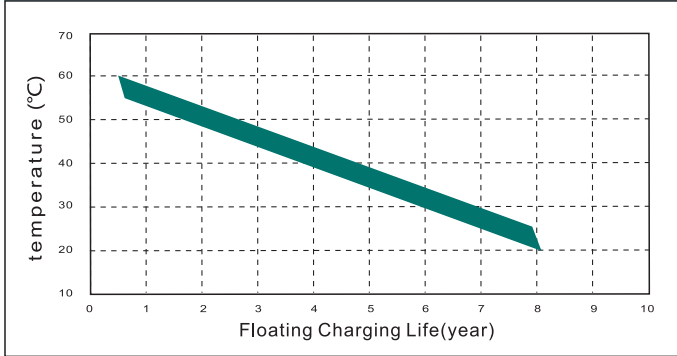
KY-IOP-LW12-230 B0. May 2023

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.

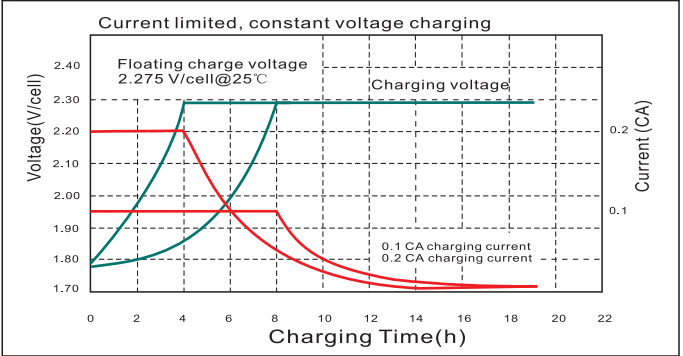


General VRLA Battery 6FM230G (12V230Ah)

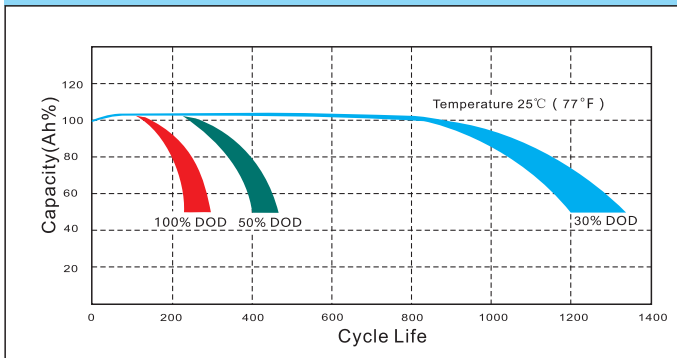
Floating Charging Life VS Temperature



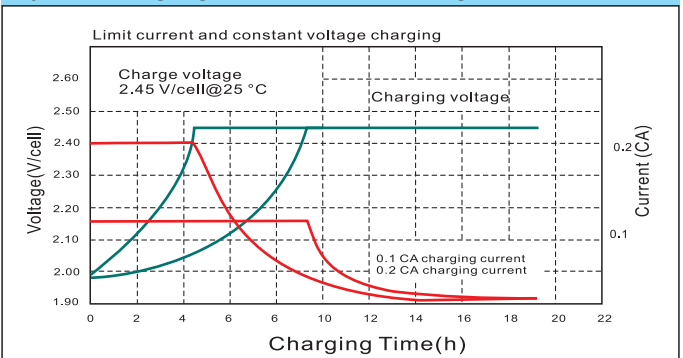
Floating Charging Characteristics Diagram



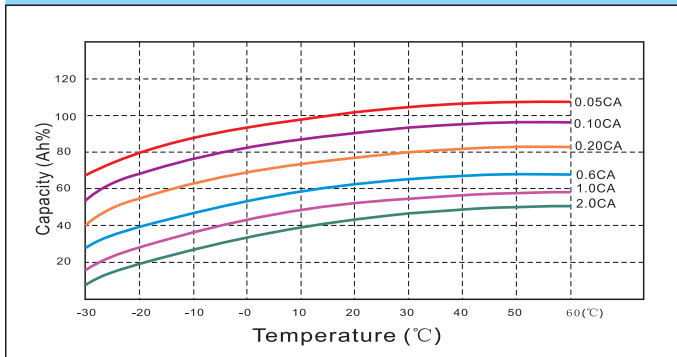
Cycle Life



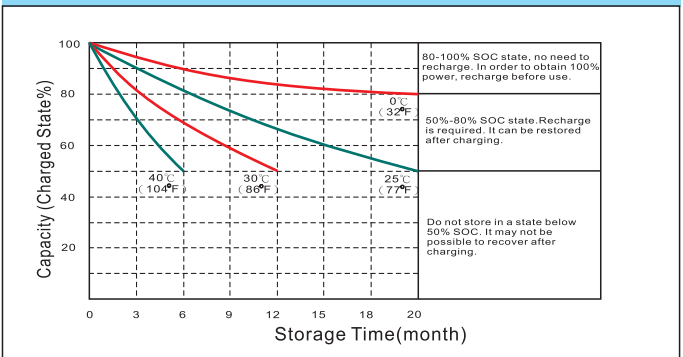
Cycle charging characteristic diagram



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	621	529	403	237	129	79.4	58.4	40.2	26.8	23.3	12.0
9.9	602	513	394	232	126	79.0	58.1	40.0	26.7	23.2	12.0
10.2	590	503	386	227	124	78.2	57.5	39.6	26.6	23.1	11.9
10.5	556	487	374	220	120	77.4	56.9	39.2	26.5	23.1	11.9
10.8	509	472	367	216	117	76.6	56.4	38.8	26.5	23.0	11.8

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	6707	5777	4589	2658	1468	919.1	686.3	474.6	322.2	278.7	144.3
9.9	6506	5603	4331	2605	1439	914.6	683.0	472.3	320.6	277.4	143.6
10.2	6371	5488	4243	2552	1410	905.6	676.2	467.6	319.3	276.3	143.0
10.5	6003	5315	4110	2472	1366	896.5	669.4	462.9	318.4	275.4	142.6
10.8	5500	5159	4031	2424	1339	887.4	662.7	458.2	317.4	274.6	142.1



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-LW12-230 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.