The LONGWAY General Series small batteries (less 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 5 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 IEC61056-2012, JIS C8702-1-2003, 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)

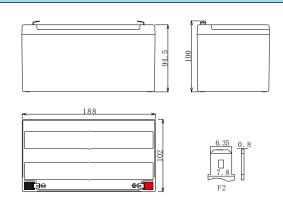
Applications

- 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	24V (12cells)						
Capacity	@25 °C						
20hr Rate (0.35A)	7.00 Ah @ to 1.75V/cell						
3hr Rate (1.75A)	5.25 Ah @ to 1.70V/cell						
27min Rate (7.00A)	3.85 Ah @ to 1.60V/cell						
Weight	Approx (4.07 \pm 3%)kg (8.97lbs)						
Internal Resistance	Approx 44.0 m Ω fully charged @25 $^{\circ}\mathrm{C}$						
Maximum Discharge Current	72A(4sec)						
Terminal	F2						
Operating Temperature Range	Discharge:-20℃~60℃;Charge:0℃~50℃ Storage:-20℃~40℃						
Container Material	ABS(UL94 HB)/UL94-V0 Optional						

Dimensions



Length	188.0mm	7.40inch
Width	102.0mm	4.02inch
Height	94.5mm	3.72inch
Total height	100.0mm	3.94inch

Battery use

Cycle use

- 1. Limit the initial charging current to no more than 2.1A
- 2. Keep charging voltage at 28.8-30V/unit.and continue charging at least 3 hours after the charging current reduces to 0.14A to ensure full charge
- 3. The compensation coefficient of charging voltage and temperature is -5mv/cell/ $^{\circ}$

Float use

- 1. Limit the initial charging current to no more than 2.1A
- 2. Keep charging voltage at 27.0-27.6V/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/ $\!\!\!\!\!\!^{\rm C}$





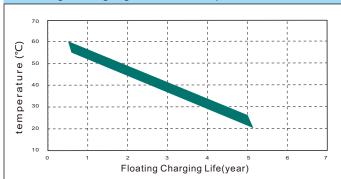


Kaiying Power Supply & Electrical Equip Co., Ltd Email: sales@longwaybattery.com
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Add: Kaiying Industrial Area, Chengxiang Town, Anxi, Quanzhou, Fujian Province, China KY-IOP-LW24-7D B0. May 2023

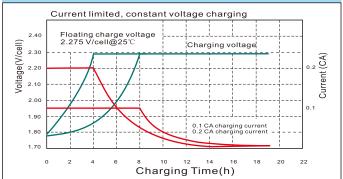


General VRLA Battery 12FM7 (24V7Ah)

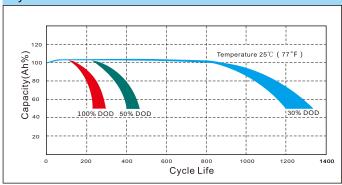
Floating Charging Life VS Temperature



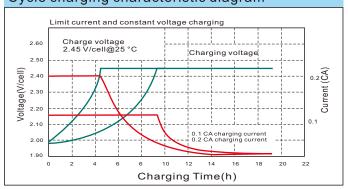
Floating Charging Characteristics Diagram



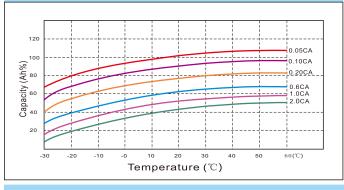
Cycle Life



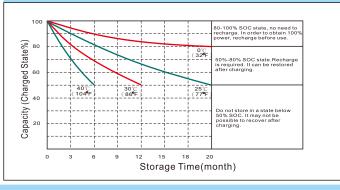
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25℃)

Sometant surface of a restaurant surface of the sur											
F.V/TIME	5m in	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
19.2	26.3	17.5	11.9	7.00	4.20	3.22	2.56	1.78	1.21	0.65	0.34
19.8	25.5	17.0	11.5	6.79	4.07	3.16	2.53	1.76	1.20	0.65	0.34
20.4	24.9	16.6	11.4	6.72	4.03	3.09	2.52	1.75	1.19	0.65	0.34
21.0	24.2	16.1	10.9	6.44	3.86	3.03	2.49	1.73	1.18	0.65	0.34
21.6	23.4	15.6	10.9	6.38	3.83	2.96	2.47	1.72	1.17	0.64	0.34

Constant power discharge characteristic (W,25℃)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
19.2	586	395	271	160	97.3	75.3	59.9	42.2	28.8	15.7	8.18
19.8	568	383	263	156	94.4	73.8	59.3	41.8	28.6	15.6	8.14
20.4	557	375	260	154	93.4	72.3	59.0	41.6	28.4	15.5	8.11
21.0	539	363	250	148	89.5	70.8	58.4	41.2	28.1	15.5	8.08
21.6	523	353	247	146	88.7	69.3	57.8	40.7	27.8	15.5	8.06







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