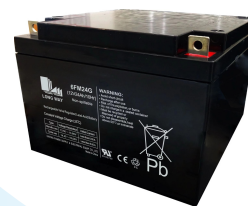




Sound/Speaker System Battery

6FM24G (12V24Ah)

LONGWAY speaker batteries are designed and developed according to the characteristics of instant large current, deep discharge, easy over-discharge and high-frequency vibration required in the use of speaker. The product has the advantages of long cycle life, good performance of large current discharge, low self-discharge rate, strong recovery ability of over-discharge, strong anti-vibration ability, etc., which can meet the special performance requirements of speaker batteries. Products pass UL, CE, RoHS certification, and can be shipped by sea or air.



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)

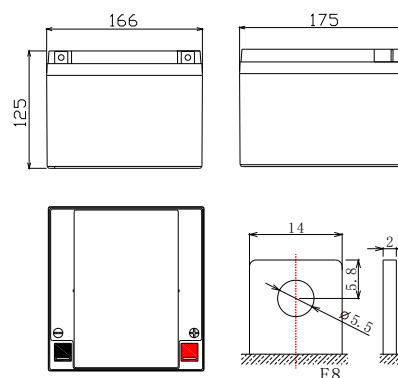
Applications

- Outdoor battery speaker
- Portable video speaker
- Outdoor song on-demand stereo
- Wireless Bluetooth speaker
- Wireless line array speaker
- Square dance speaker
- And company meeting, wedding hosting, outdoor activities and other audio

Performance

Nominal Voltage	12V (6cell)
Capacity	@25°C
20hr Rate (2.40A)	24.0Ah @ to 1.75V/cell
5hr Rate (4.08A)	20.4Ah @ to 1.70V/cell
3hr Rate (6.00A)	18.0Ah @ to 1.60V/cell
Weight	Approx (7.50±3%)kg (16.53lbs)
Internal Resistance	Approx 9.60mΩ fully charged @25°C
Maximum Discharge Current	120A(3sec)
Terminal	F8
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	175mm	6.89inch
Width	166mm	6.54inch
Height	125mm	4.92inch
Total height	125mm	4.92inch

Battery use

Cycle use

- 1.Limit the initial charging current to no more than 6.00A
- 2.Keep charging voltage at 14.40-15.00 V/unit, and continue charging at least 3 hours after the charging current reduces to 0.48A 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 6.00A
2. Keep charging voltage at 13.50-13.80 V/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-LW12-24D B0.May 2023

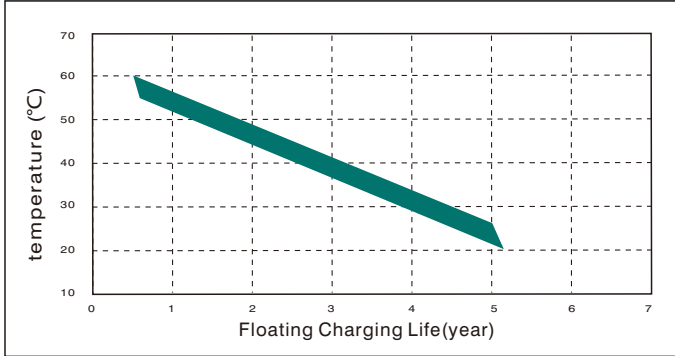
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery, Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information



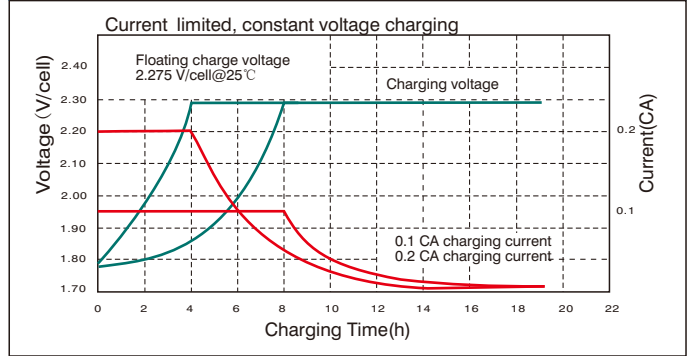
Sound/Speaker System Battery

6FM24G (12V24Ah)

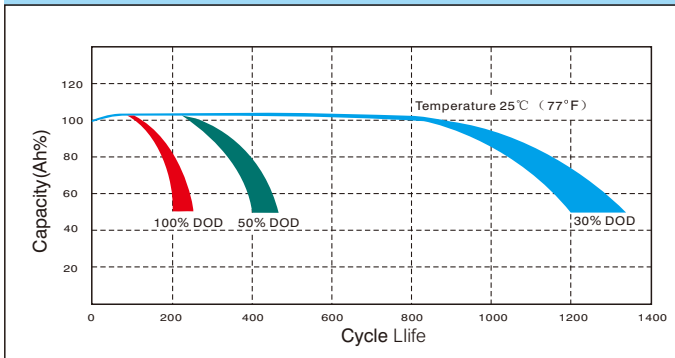
Floating Charging Life VS Temperature



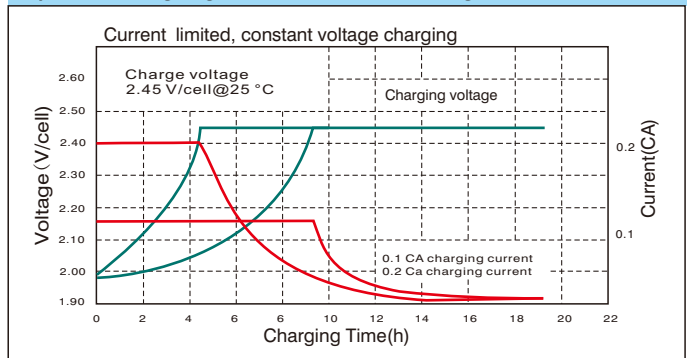
Floating Charging Characteristics Diagram



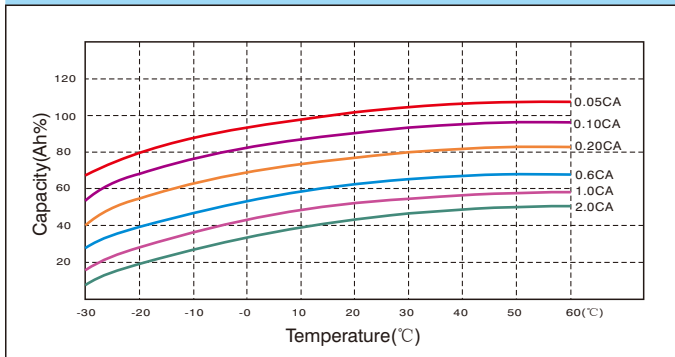
Cycle Life



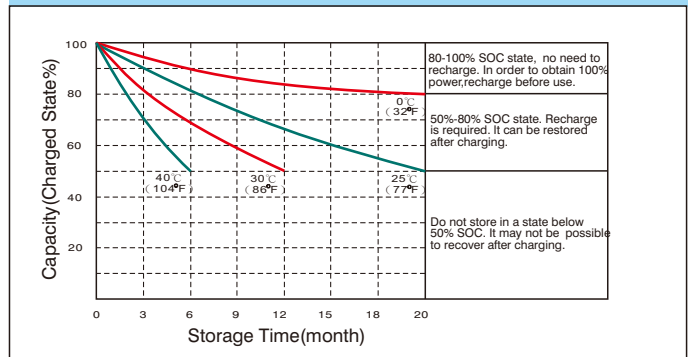
Cycle charging characteristic diagram



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	64.8	55.2	42.0	24.7	13.4	8.28	6.09	4.19	2.80	2.44	1.25
9.90	62.9	53.5	41.2	24.2	13.2	8.24	6.06	4.17	2.79	2.42	1.25
10.2	61.6	52.4	40.3	23.7	12.9	8.16	6.00	4.13	2.78	2.41	1.24
10.5	58.0	50.8	39.1	23.0	12.5	8.08	5.94	4.09	2.77	2.41	1.24
10.8	53.1	49.3	38.3	22.5	12.3	8.00	5.88	4.05	2.76	2.40	1.24

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.60	700	603	479	277	153	95.9	71.6	49.5	33.6	29.1	15.1
9.90	679	585	452	272	150	95.4	71.3	49.3	33.5	28.9	15.0
10.2	665	573	443	266	147	94.5	70.6	48.8	33.3	28.8	14.9
10.5	626	555	429	258	142	93.5	69.9	48.3	33.2	28.7	14.9
10.8	574	538	421	253	140	92.6	69.1	47.8	33.1	28.7	14.8



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