



Sound/Speaker System Battery

6FM3.5 (12V3.5Ah)




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	Applications
<ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> 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	Dimensions												
Nominal Voltage 12V (6cell)	<table border="1"> <tr> <td>Length</td> <td>90.5mm</td> <td>3.56inch</td> </tr> <tr> <td>Width</td> <td>47.0mm</td> <td>1.85inch</td> </tr> <tr> <td>Height</td> <td>100.0mm</td> <td>3.94inch</td> </tr> <tr> <td>Total height</td> <td>106.0mm</td> <td>4.17inch</td> </tr> </table>	Length	90.5mm	3.56inch	Width	47.0mm	1.85inch	Height	100.0mm	3.94inch	Total height	106.0mm	4.17inch
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Total height		106.0mm	4.17inch										
Capacity @25°C													
20hr Rate (0.17A) 3.50Ah @ to 1.75V/cell													
3hr Rate (0.87A) 2.63Ah @ to 1.70V/cell													
27min Rate (3.50A) 1.63Ah @ to 1.60V/cell													
Weight Approx (1.00±3%)kg (2.00lbs)													
Internal Resistance Approx 44.0mΩ fully charged @25°C													
Maximum Discharge Current 45A(3sec)													
Terminal F1													
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													

Battery use
Cycle use <ol style="list-style-type: none"> Limit the initial charging current to no more than 1.05A Keep charging voltage at 14.40-15.00V/unit, and continue charging at least 3 hours after the charging current reduces to 0.07A to ensure full charge The compensation coefficient of charging voltage and temperature is -5mv/cell /°C
Float use <ol style="list-style-type: none"> Limit the initial charging current to no more than 1.05A Keep charging voltage at 13.50-13.80V/unit. When the voltage reaches the constant voltage the current gradually decreases until the battery is fully charged and continues to charge 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-LW12-3.5A B0.May 2023

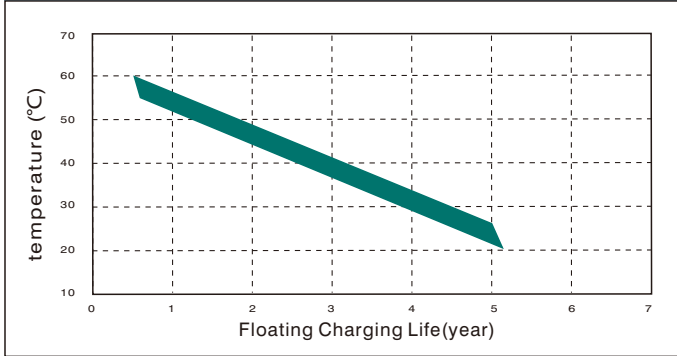
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery, Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information



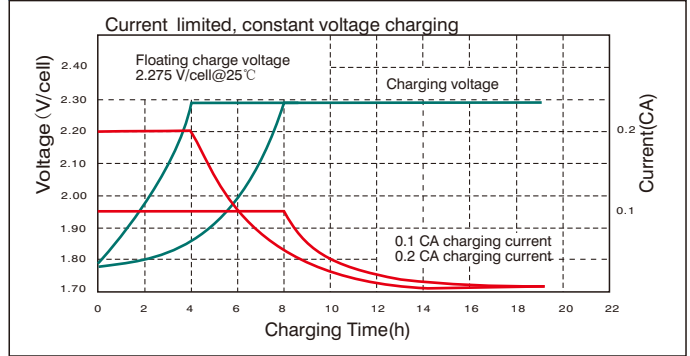
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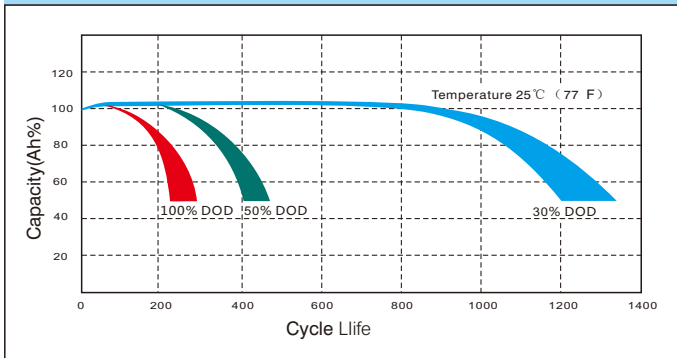
Floating Charging Life VS Temperature



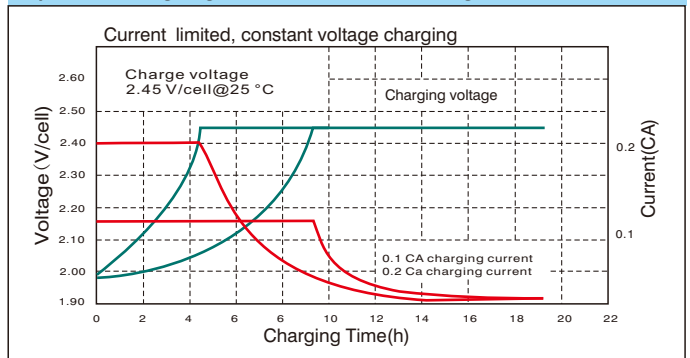
Floating Charging Characteristics Diagram



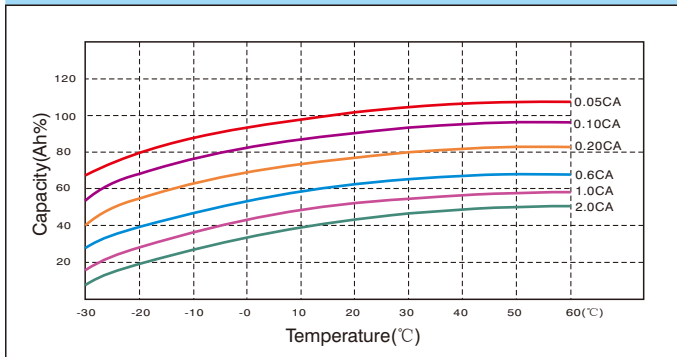
Cycle Life



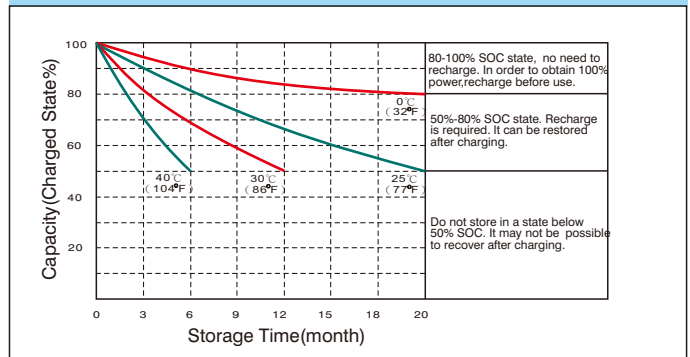
Cycle charging characteristic diagram



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	11.9	7.88	5.88	3.50	2.03	1.58	1.10	0.89	0.60	0.32	0.17
9.9	11.5	7.64	5.70	3.40	1.97	1.54	1.09	0.88	0.59	0.32	0.16
10.2	11.3	7.48	5.64	3.36	1.95	1.51	1.09	0.88	0.59	0.32	0.16
10.5	10.9	7.25	5.41	3.22	1.87	1.48	1.07	0.87	0.58	0.32	0.16
10.8	10.6	7.03	5.36	3.19	1.85	1.45	1.06	0.86	0.58	0.32	0.16

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	133	88.8	67.0	40.1	23.5	18.4	12.9	10.6	7.10	3.80	2.00
9.9	129	86.2	65.0	38.9	22.8	18.1	12.8	10.4	7.10	3.80	2.00
10.2	126	84.4	64.4	38.5	22.6	17.7	12.7	10.4	7.00	3.80	2.00
10.5	122	81.7	61.7	36.9	21.6	17.3	12.6	10.3	7.00	3.80	2.00
10.8	119	79.3	61.1	36.6	21.4	17.0	12.4	10.2	6.90	3.80	2.00



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