



Sound/Speaker System Battery

6FM2.2 (12V2.2Ah)




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																																		
<table border="1"> <tr> <td>Nominal Voltage</td> <td>12V (6cell)</td> </tr> <tr> <td>Capacity</td> <td>@25°C</td> </tr> <tr> <td>20hr Rate (0.11A)</td> <td>2.31Ah @ to 1.75V/cell</td> </tr> <tr> <td>3hr Rate (0.55A)</td> <td>1.65Ah @ to 1.70V/cell</td> </tr> <tr> <td>27min Rate (2.20A)</td> <td>1.06Ah @ to 1.60V/cell</td> </tr> <tr> <td>Weight</td> <td>Approx (0.74±3%)kg (1.63lbs)</td> </tr> <tr> <td>Internal Resistance</td> <td>Approx 50.0mΩ fully charged @25°C</td> </tr> <tr> <td>Maximum Discharge Current</td> <td>55A(3sec)</td> </tr> <tr> <td>Terminal</td> <td>F1</td> </tr> <tr> <td>Operating Temperature Range</td> <td>Discharge:-20°C~60°C; Charge:0°C~50°C Storage:-20°C~40°C</td> </tr> <tr> <td>Container Material</td> <td>ABS(UL94 HB)/UL94-V0 Optional</td> </tr> </table>	Nominal Voltage	12V (6cell)	Capacity	@25°C	20hr Rate (0.11A)	2.31Ah @ to 1.75V/cell	3hr Rate (0.55A)	1.65Ah @ to 1.70V/cell	27min Rate (2.20A)	1.06Ah @ to 1.60V/cell	Weight	Approx (0.74±3%)kg (1.63lbs)	Internal Resistance	Approx 50.0mΩ fully charged @25°C	Maximum Discharge Current	55A(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	<table border="1"> <tr> <td>Length</td> <td>70.5mm</td> <td>2.78inch</td> </tr> <tr> <td>Width</td> <td>47.5mm</td> <td>1.87inch</td> </tr> <tr> <td>Height</td> <td>99mm</td> <td>3.90inch</td> </tr> <tr> <td>Total height</td> <td>104mm</td> <td>4.09inch</td> </tr> </table>	Length	70.5mm	2.78inch	Width	47.5mm	1.87inch	Height	99mm	3.90inch	Total height	104mm	4.09inch
Nominal Voltage	12V (6cell)																																		
Capacity	@25°C																																		
20hr Rate (0.11A)	2.31Ah @ to 1.75V/cell																																		
3hr Rate (0.55A)	1.65Ah @ to 1.70V/cell																																		
27min Rate (2.20A)	1.06Ah @ to 1.60V/cell																																		
Weight	Approx (0.74±3%)kg (1.63lbs)																																		
Internal Resistance	Approx 50.0mΩ fully charged @25°C																																		
Maximum Discharge Current	55A(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																																		
Length	70.5mm	2.78inch																																	
Width	47.5mm	1.87inch																																	
Height	99mm	3.90inch																																	
Total height	104mm	4.09inch																																	

Battery use
Cycle use <ol style="list-style-type: none"> Limit the initial charging current to no more than 0.66A Keep charging voltage at 14.40-15.00V/unit, and continue charging at least 3 hours after the charging current reduces to 0.04A 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 0.66A 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-LW12-2.2 B0.May 2023

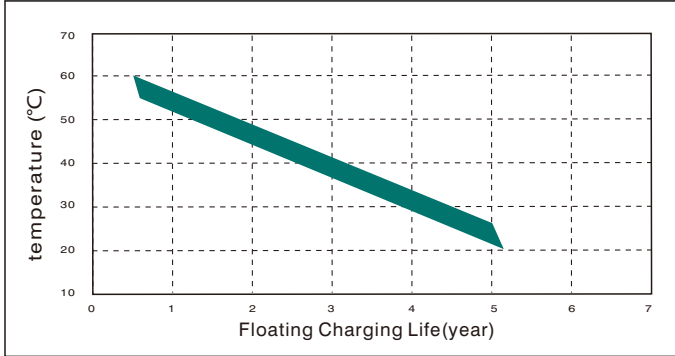
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery, Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information



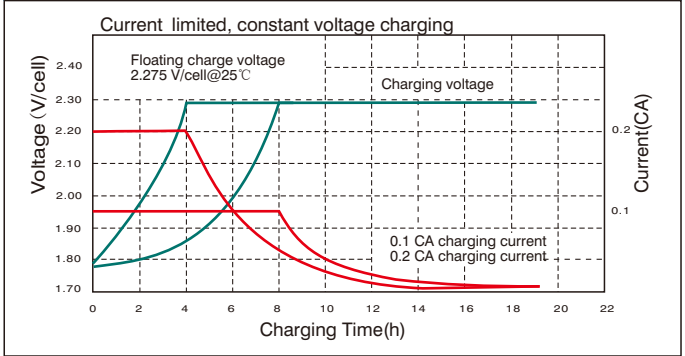
Sound/Speaker System Battery

6FM2.2 (12V2.2Ah)

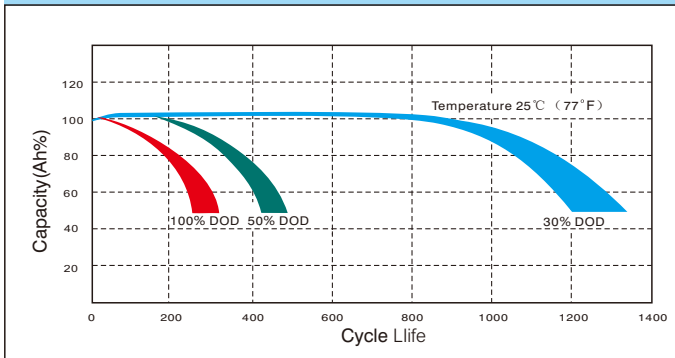
Floating Charging Life VS Temperature



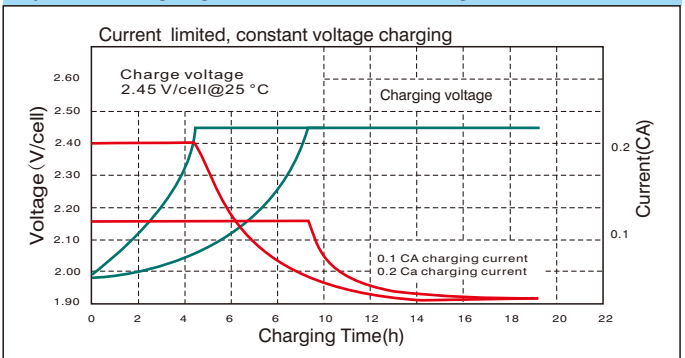
Floating Charging Characteristics Diagram



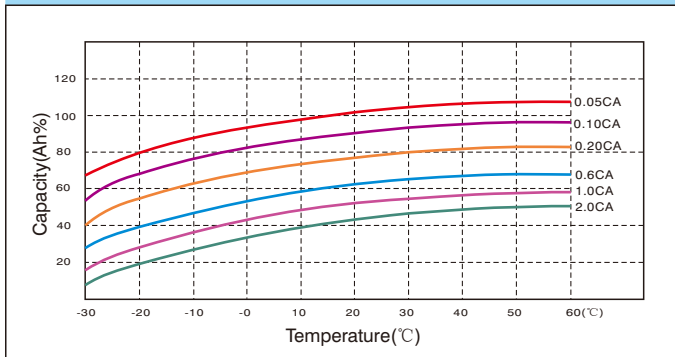
Cycle Life



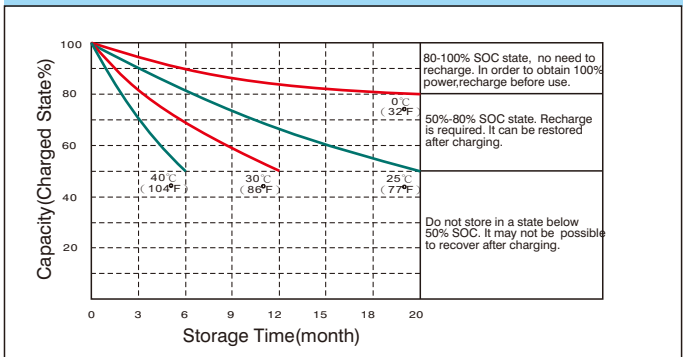
Cycle charging characteristic diagram



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	8.14	5.30	3.70	2.20	1.28	0.9	0.77	0.51	0.38	0.21	0.12
9.9	7.90	5.12	3.63	2.13	1.24	0.88	0.76	0.51	0.38	0.21	0.12
10.2	7.73	5.02	3.59	2.11	1.22	0.87	0.76	0.51	0.37	0.21	0.12
10.5	7.49	4.86	3.44	2.02	1.17	0.85	0.75	0.50	0.37	0.21	0.12
10.8	7.27	4.72	3.41	2.01	1.16	0.83	0.74	0.50	0.37	0.21	0.12

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	90.8	59.6	42.6	25.2	14.8	10.6	9.04	6.10	4.53	2.57	1.42
9.9	88.1	57.8	41.4	24.5	14.3	10.3	8.92	6.04	4.49	2.56	1.41
10.2	86.3	56.6	40.9	24.2	14.2	10.1	8.88	6.01	4.47	2.55	1.41
10.5	83.6	54.8	39.2	23.2	13.6	9.92	8.79	5.95	4.42	2.54	1.40
10.8	81.1	53.2	38.9	23.0	13.5	9.71	8.70	5.89	4.38	2.53	1.40



Kaiying Power Supply & Electrical Equip Co., Ltd Email: sales@longwaybattery.com
 Tel:0595-68782266 Fax:0595-68782222 Website: <http://www.longwaybattery.com>
 Add: Kaiying IndustrialArea, Chengxiang Town, Anxi, Quanzhou, Fujian Province, China
 KY-IOP-LW12-2.2 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