

Sound/Speaker SystemBattery 6FM4.5 (12V4.5Ah)

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

- 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)

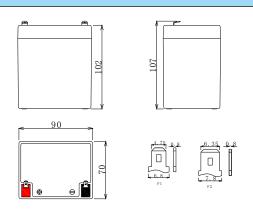
Applications

- 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℃					
20hr Rate (0.22A)	5.18Ah @ to 1.75V/cell					
3hr Rate (1.22A)	3.67Ah @ to 1.70V/cell					
27min Rate (4.50A)	2.63Ah @ to 1.60V/cell					
Weight	Approx (1. 43 ± 3%)kg (3.15lbs)					
Internal Resistance	Approx 29.0m Ω 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					

Dimensions



90.0mm	3.54inch
70.0mm	2.76inch
102.0mm	4.02inch
107.0mm	4.21inch
	70.0mm 102.0mm

Battery use

Cycle use

- 1.Limit the initial charging current to no more than 1.35A
- 2. Keep charging voltage at 14.40-15.00 V/unit, and continue charging at least 3 hours after the charging current reduces to 0.09 A toensure 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 1.35A
- 2. 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





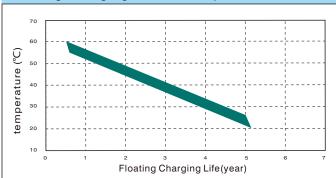


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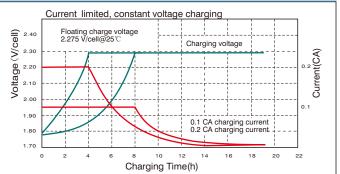


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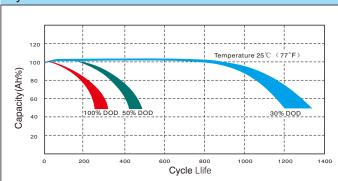




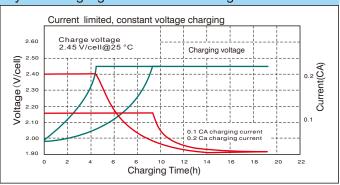




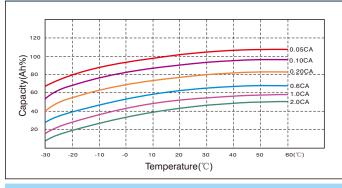
Cycle Life



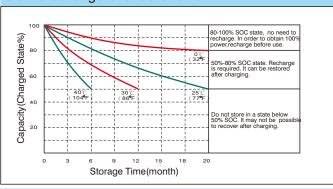
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25°C)

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F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	15.1	9.90	8.80	4.90	2.93	2.09	1.64	1.23	0.82	0.47	0.25
9.9	14.6	9.60	8.54	4.75	2.84	2.05	1.63	1.22	0.81	0.47	0.25
10.2	14.3	9.41	8.45	4.70	2.81	2.01	1.62	1.22	0.81	0.47	0.25
10.5	13.9	9.11	8.10	4.51	2.69	1.97	1.60	1.20	0.80	0.46	0.25
10.8	13.5	8.84	8.03	4.47	2.67	1.93	1.59	1.19	0.79	0.46	0.25

Constant power discharge characteristic (W,25℃)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.6	168	112	100	56.2	33.9	24.5	19.2	14.7	9.80	5.65	3.01
9.9	163	108	97.3	54.5	32.9	24.0	19.0	14.5	9.70	5.62	3.00
10.2	160	106	96.3	53.9	32.5	23.5	19.0	14.4	9.70	5.60	2.99
10.5	155	103	92.3	51.7	31.2	23.0	18.8	14.3	9.60	5.57	2.98
10.8	150	100	91.5	51.2	30.9	22.5	18.6	14.1	9.50	5.56	2.97







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