

Sound/Speaker SystemBattery 6FM20 (12V20Ah)

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)

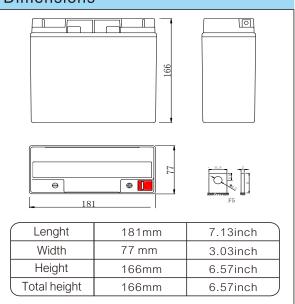
Applications

- 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 (1.00A)	20.8Ah @ to 1.75V/cell				
3hr Rate (5.00A)	16.5Ah @ to 1.70V/cell				
27min Rate (20.00A)	13.6Ah @ to 1.60V/cell				
Weight	Approx (5. 90±3%)kg (13.01lbs)				
Internal Resistance	Approx 11.3m Ω fully charged @25°C				
Maximum Discharge Current	165A(3sec)				
Terminal	F5				
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



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 0.40A 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 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





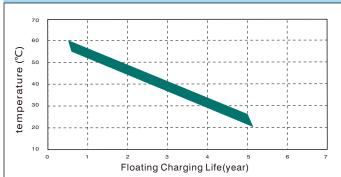


Kaiying Power Supply & Electrical Equip Co., Ltd Email: sales@longwaybattery.com Tel:0595-68782266 Fax:0595-68782222 Website: http://www.longwaybattery.com Add: Kaiying IndustrialArea, Chengxiang Town, Anxi, Quanzhou, Fujian Province, China KY-IOP-LW12-20 B0.May 2023

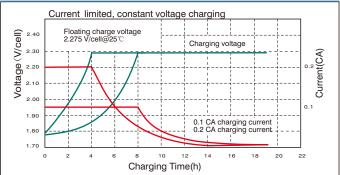


Sound/Speaker SystemBattery 6FM20 (12V20Ah)

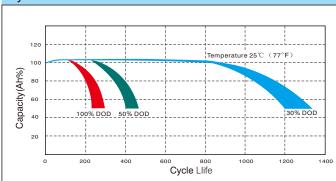




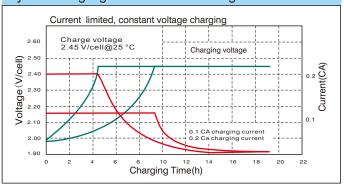
Floating Charging Characteristics Diagram



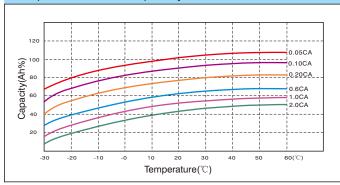
Cycle Life



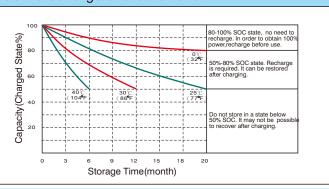
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25℃)

, , , , , , , , , , , , , , , , , , ,											
F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.60	86.0	50.0	38.0	24.0	12.4	9.30	7.51	5.68	3.76	2.03	1.06
9.90	83.4	48.5	36.9	23.3	12.0	9.11	7.44	5.63	3.72	2.02	1.05
10.2	81.7	47.5	36.5	23.0	11.9	8.93	7.40	5.60	3.70	2.01	1.05
10.5	79.1	46.0	35.0	22.1	11.4	8.74	7.33	5.54	3.66	2.00	1.04
10.8	76.8	44.7	34.7	21.9	11.3	8.56	7.25	5.49	3.63	2.00	1.04

Constant power discharge characteristic (W,25°C)

	•				•	•					
F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
9.60	960	564	433	275	144	109	87.9	67.5	44.8	24.4	12.7
9.90	931	547	420	267	139	107	87.0	66.9	44.4	24.2	12.6
10.2	912	536	416	264	138	104	86.6	66.5	44.2	24.1	12.6
10.5	883	519	399	253	132	102	85.7	65.9	43.7	24.0	12.5
10.8	857	504	395	251	131	100	84.8	65.2	43.3	24.0	12.5







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-LW12-20 B0.May 2023