



Electrical toy car battery series

3FM5.5 (6V5.5Ah)

LONGWAY Brand toy car batteries are specially designed and developed for children's electric strollers, electric scooters and other toy cars. It uses special lead paste formula and Internalized formation production process to ensure that the battery has the advantages of long cycle life, low self-discharge rate and strong storage capacity. Products meet the requirements of IEC and DOE energy efficiency standards, 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
- Long Storage time. Battery with full state of charge under room temperature, after 6-12 months storage, it can be used & recovered (It is recommended to recharge after storage for 6 months or before use)

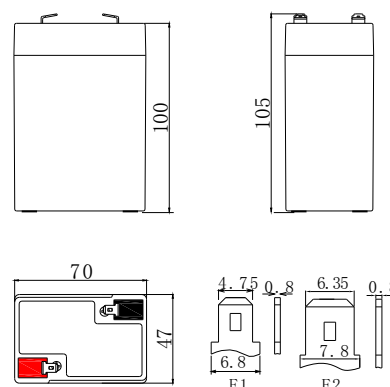
Applications

- Children's electric car with three-wheels
- Children's electric cars
- Children's drift cars
- Children's electric karts
- Electric scooter
- Electric balance car
- And other electric toys, electric tools etc

Performance

| | |
|-----------------------------|---|
| Nominal Voltage | 6V (3cell) |
| Capacity | @25°C |
| 20hr Rate (0.27A) | 5.50Ah @ to 1.75V/cell |
| 3hr Rate (1.38A) | 4.12Ah @ to 1.70V/cell |
| 27min Rate (5.50A) | 3.21Ah @ to 1.60V/cell |
| Weight | Approx (0.82 ± 3%)kg (1.81lbs) |
| Internal Resistance | Approx 13.0mΩ fully charged @25°C |
| Maximum Discharge Current | 55A(3sec) |
| Terminal | F1/F2 |
| 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 | 70.0mm | 2.76inch |
| Width | 47.0mm | 1.85inch |
| Height | 100.0mm | 3.94inch |
| Total height | 105.0mm | 4.13inch |

Battery use

Cycle use

- 1.Limit the initial charging current to no more than 1.65A
- 2.Keep charging voltage at 7.20-7.50V/unit, and continue charging at least 3 hours after the charging current reduces to 0.11A 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 1.65A
2. Keep charging voltage at 6.75-6.90V/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-LW6-5.5 B0.May 2023

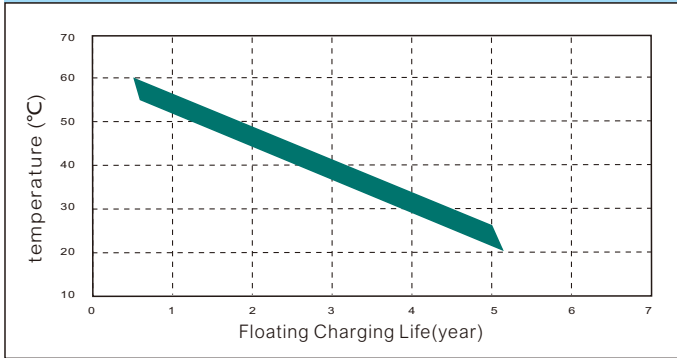
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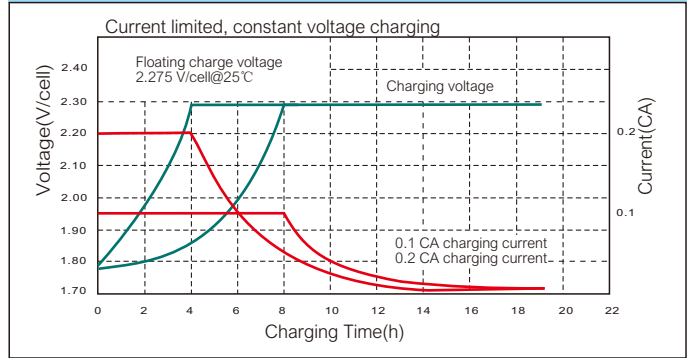
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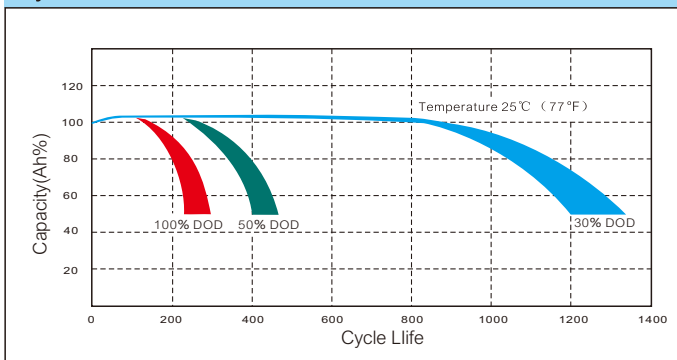
Floating Charging Life VS Temperature



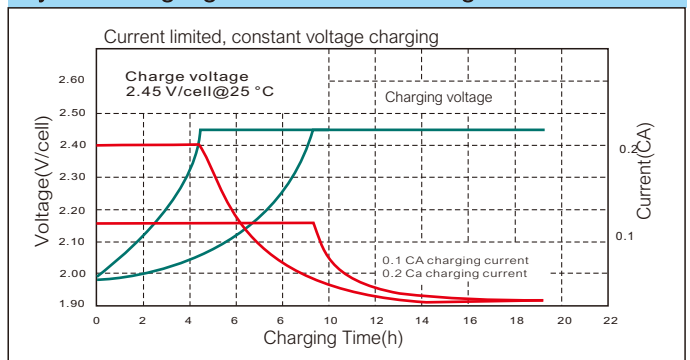
Floating Charging Characteristics Diagram



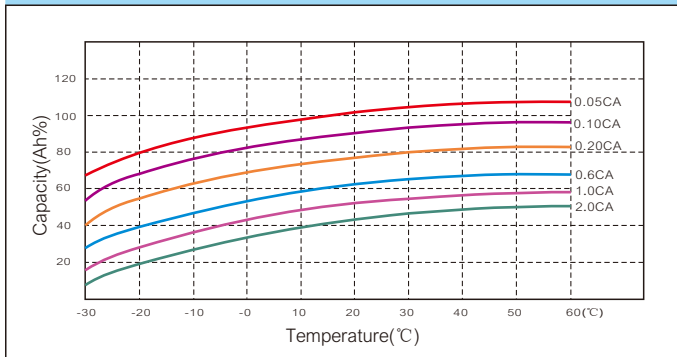
Cycle Life



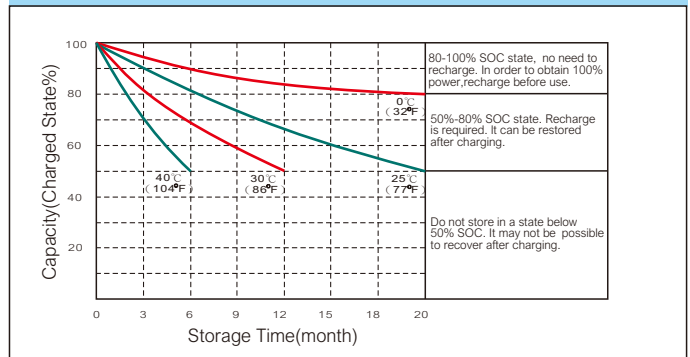
Cycle charging characteristic diagram



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 |
|----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 4.80 | 22.0 | 13.8 | 11.0 | 5.67 | 3.30 | 2.01 | 1.54 | 1.00 | 0.61 | 0.52 | 0.28 |
| 4.95 | 21.3 | 13.3 | 10.67 | 5.50 | 3.20 | 1.99 | 1.52 | 0.99 | 0.61 | 0.52 | 0.28 |
| 5.10 | 20.9 | 13.1 | 10.56 | 5.44 | 3.17 | 1.98 | 1.51 | 0.99 | 0.61 | 0.51 | 0.28 |
| 5.25 | 20.2 | 12.7 | 10.12 | 5.21 | 3.04 | 1.96 | 1.50 | 0.98 | 0.61 | 0.51 | 0.28 |
| 5.40 | 19.6 | 12.3 | 10.03 | 5.17 | 3.01 | 1.94 | 1.48 | 0.97 | 0.61 | 0.51 | 0.28 |

Constant power discharge characteristic (W,25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 90min | 2h | 3h | 5h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|-----|------|------|------|------|
| 4.80 | 122.8 | 77.6 | 62.7 | 32.5 | 19.1 | 11.8 | 9.1 | 6.00 | 3.68 | 3.12 | 1.67 |
| 4.95 | 119.1 | 75.2 | 60.8 | 31.5 | 18.5 | 11.6 | 9.0 | 5.94 | 3.67 | 3.10 | 1.67 |
| 5.10 | 116.6 | 73.7 | 60.2 | 31.2 | 18.3 | 11.6 | 9.0 | 5.91 | 3.65 | 3.09 | 1.66 |
| 5.25 | 112.9 | 71.3 | 57.7 | 29.9 | 17.6 | 11.5 | 8.9 | 5.85 | 3.64 | 3.08 | 1.65 |
| 5.40 | 109.6 | 69.3 | 57.2 | 29.6 | 17.4 | 11.4 | 8.8 | 5.79 | 3.63 | 3.07 | 1.65 |



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