



Electrical toy car battery series

6FM4.5 (12V4.5Ah)

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)

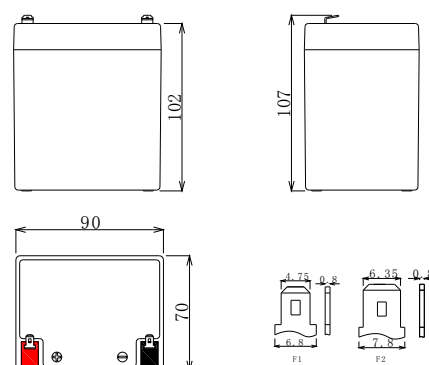
Applications

- 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	12V (6cell)
Capacity	@25°C
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 29.0mΩ 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	90.0mm	3.54inch
Width	70.0mm	2.76inch
Height	102.0mm	4.02inch
Total height	107.0mm	4.21inch

Battery use

Cycle use

1. Limit the initial charging current to no more than 1.35A
2. Keep charging voltage at 14.40-15.00V/unit, and continue charging at least 3 hours after the charging current reduces to 0.09A 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 1.35A
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
3. The compensation coefficient of charging voltage and temperature is -3mv/cell /°C



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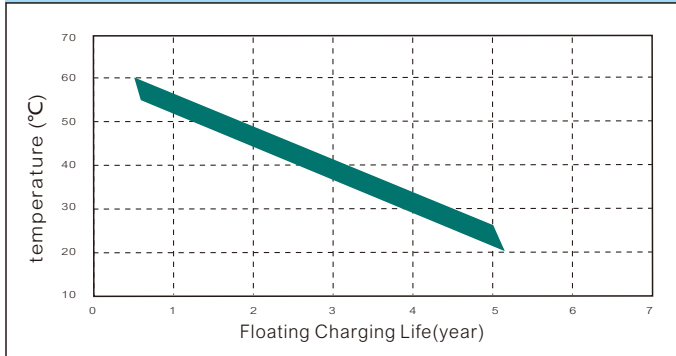
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery. Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.



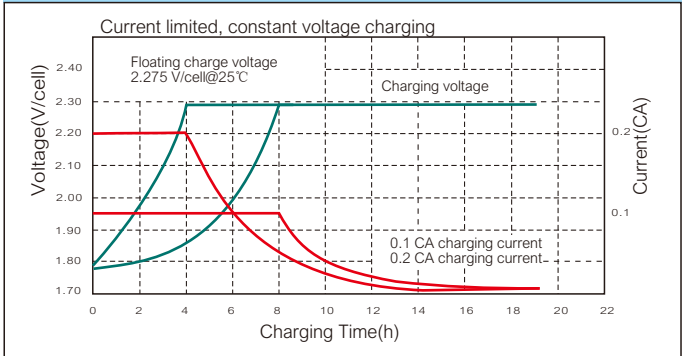
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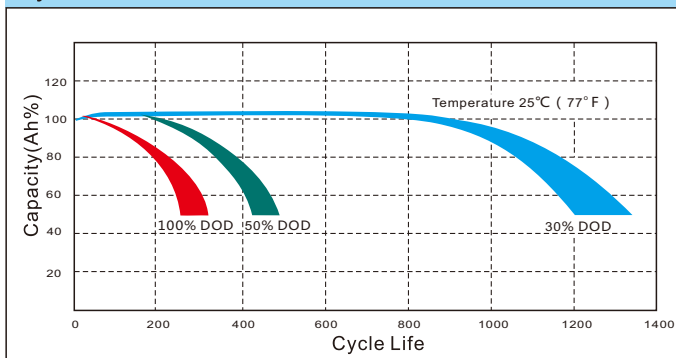
Floating Charging Life VS Temperature



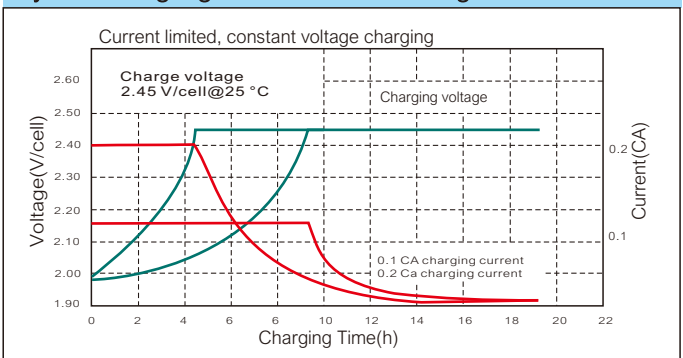
Floating Charging Characteristics Diagram



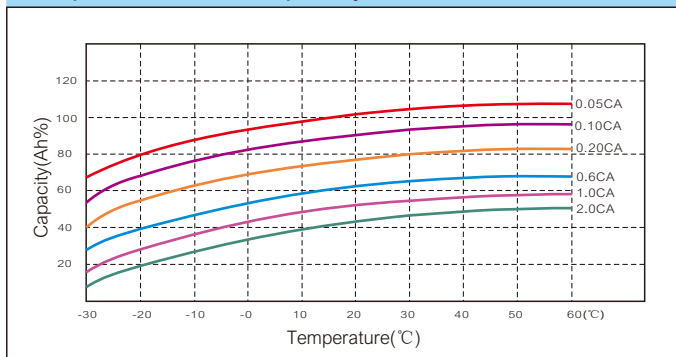
Cycle Life



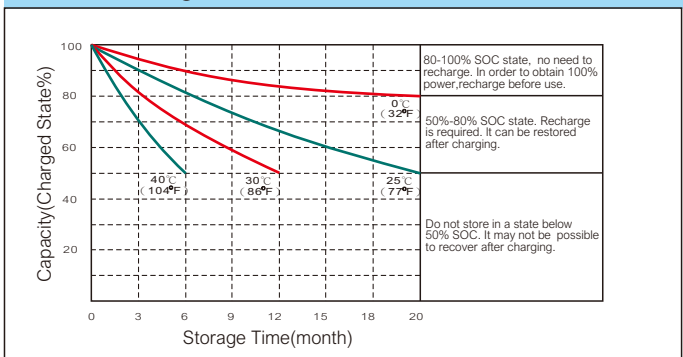
Cycle charging characteristic diagram



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	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°C)

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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