

Electrical toy car battery series 12FM13 (24V13Ah)

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)

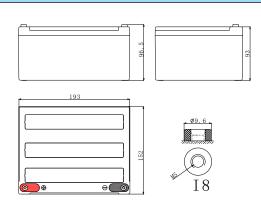
Applications

- 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	24V (12cell)					
Capacity	@25°C					
20hr Rate (0.65A)	13.5Ah @ to 1.75V/cell					
3hr Rate (3.25A)	9.75Ah @ to 1.70V/cell					
27min Rate (14.0A)	7.47Ah @ to 1.60V/cell					
Weight	Approx (7. 20±3%)kg (15.87lbs)					
Internal Resistance	Approx25.5m Ω fully charged @25°C					
Maximum Discharge Current	170A(4sec)					
Terminal	18					
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



Lenght	193.0mm	7.60inch
Width	152.0mm	5.98inch
Height	93.0mm	3.66inch
Total height	96.5mm	3.80inch

Battery use

Cycle use

- 1.Limit the initial charging current to no more than 3.90A
- 2. Keep charging voltage at 28.80-30.00 V/unit, and continue charging at least 3 hours after the charging current reduces to 0.26A to ensure full charge
- 3.The compensation coefficient of charging voltage and temperature is -5mv/cell / $^{\circ}$

Float use

- 1.Limit the initial charging current to no more than 3.90A
- 2. Keep charging voltage at 27.00-27.60 V/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





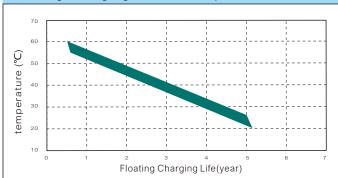


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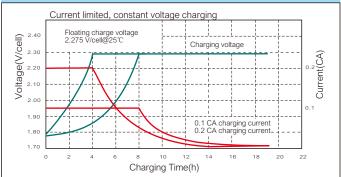


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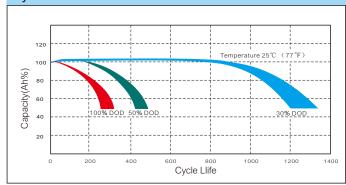




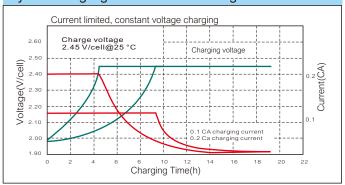
Floating Charging Characteristics Diagram



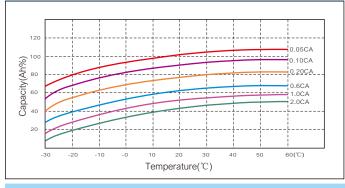
Cycle Life



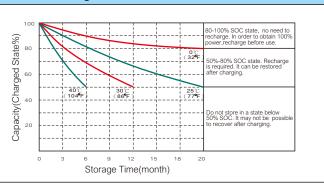
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25℃)

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F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
19.2	52.0	34.5	26.0	14.9	8.45	6.05	4.75	3.43	2.24	1.25	0.66
19.8	50.4	33.4	25.2	14.5	8.20	5.92	4.70	3.40	2.22	1.24	0.65
20.4	49.4	32.7	25.0	14.3	8.11	5.80	4.68	3.38	2.21	1.24	0.65
21.0	47.8	31.7	23.9	13.7	7.77	5.68	4.63	3.35	2.18	1.23	0.65
21.6	46.4	30.8	23.7	13.6	7.71	5.56	4.59	3.31	2.16	1.23	0.65

Constant power discharge characteristic (W,25℃)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
19.2	1161	777	593	343	196	141	111	81.5	53.6	30.1	15.8
19.8	1126	754	575	332	190	139	110	80.7	53.0	29.9	15.8
20.4	1103	738	569	329	188	136	110	80.3	52.8	29.8	15.7
21.0	1068	715	545	315	180	133	108	79.5	52.2	29.7	15.6
21.6	1036	694	541	313	178	130	107	78.7	51.7	29.6	15.6







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