



Professional Lead Acid Battery
Solution Manufacturer



LONGWAY
BATTERY
—

Kaiying Power Supply & Electrical Equip Co., Ltd



ABOUT US

KaiYing Power Supply & Electrical Equip Co., Ltd. (LONGWAY Battery) was established in 2000 and currently has two major production plants with the factory area of over 100,000 m², over 1000 employees, and an annual production capacity of over 2 million KVAH. Since its establishment, we have been committed to the development and production of high-quality battery products. Focusing on research and development, we are committed to the production, sales, and services of AGM battery and GEL battery.

LONGWAY battery technical performance meets and exceeds domestic and international standards, including IEC, BS, JIS, CE, UL, and GB. It has developed numerous proprietary technologies and patents, which covers with 2V, 4V, 6V, 8V, 12V, 18V, and 24V, with rated capacities ranging from 0.8Ah to 3000Ah. It has the advantages of high energy density, long lifespan, safety, reliability, lightweight design, and environmentally friendly. Our batteries are widely used in communication, power, rail transportation, UPS, EPS, electric tools, electric toy car, sound/speaker system, weighing scales etc. LONGWAY Battery extends to markets across the United States, Europe, the Middle East, South America, Southeast Asia etc.



OUR ADVANTAGES

10^w+

100,000+m² Workshops
More than 100,000 m²
factory area

8^w+

Production capacity
80,000 units per day
Strong production capacity
of more than 80,000 batteries
per day

1000⁺

1,000+Employees
More than 1,000 skilled
employees ensure on-time
delivery

200^w+

Annually production
capacity 2,000,000 KVAH
Production capacity is at a leading
level in the industry, with an annual
output of 2,000,000KVAh

ABOUT THE FACTORY

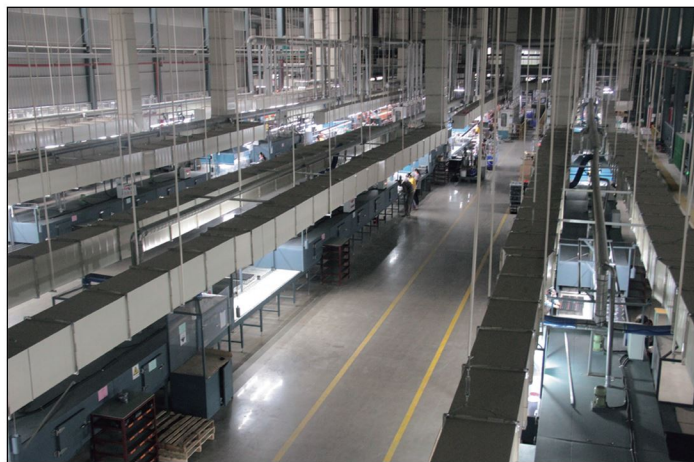
36 grid casting machines, 32 battery cast-welding machines, 106 advanced automatic production equipment such as microcomputer controlled charge and discharge machine.



Lead Powder Milling



Test center



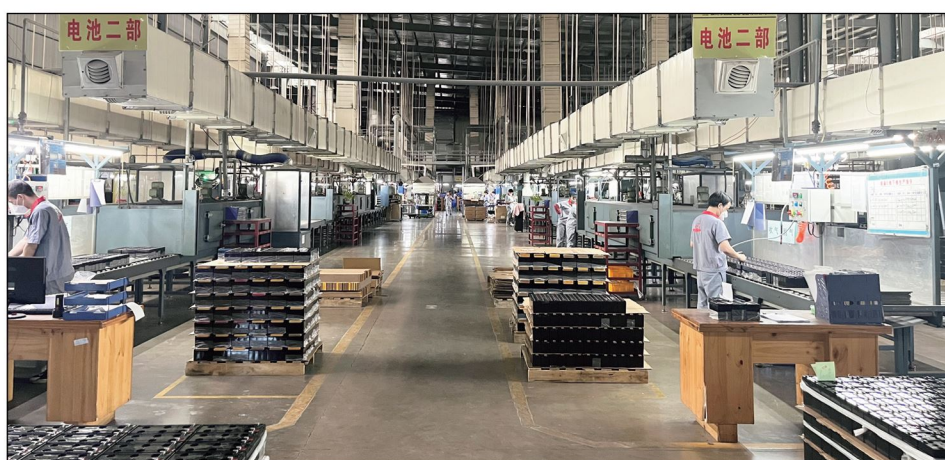
Production Workshop



Charging Workshop



Battery Cast-Welding



Assembly Workshop

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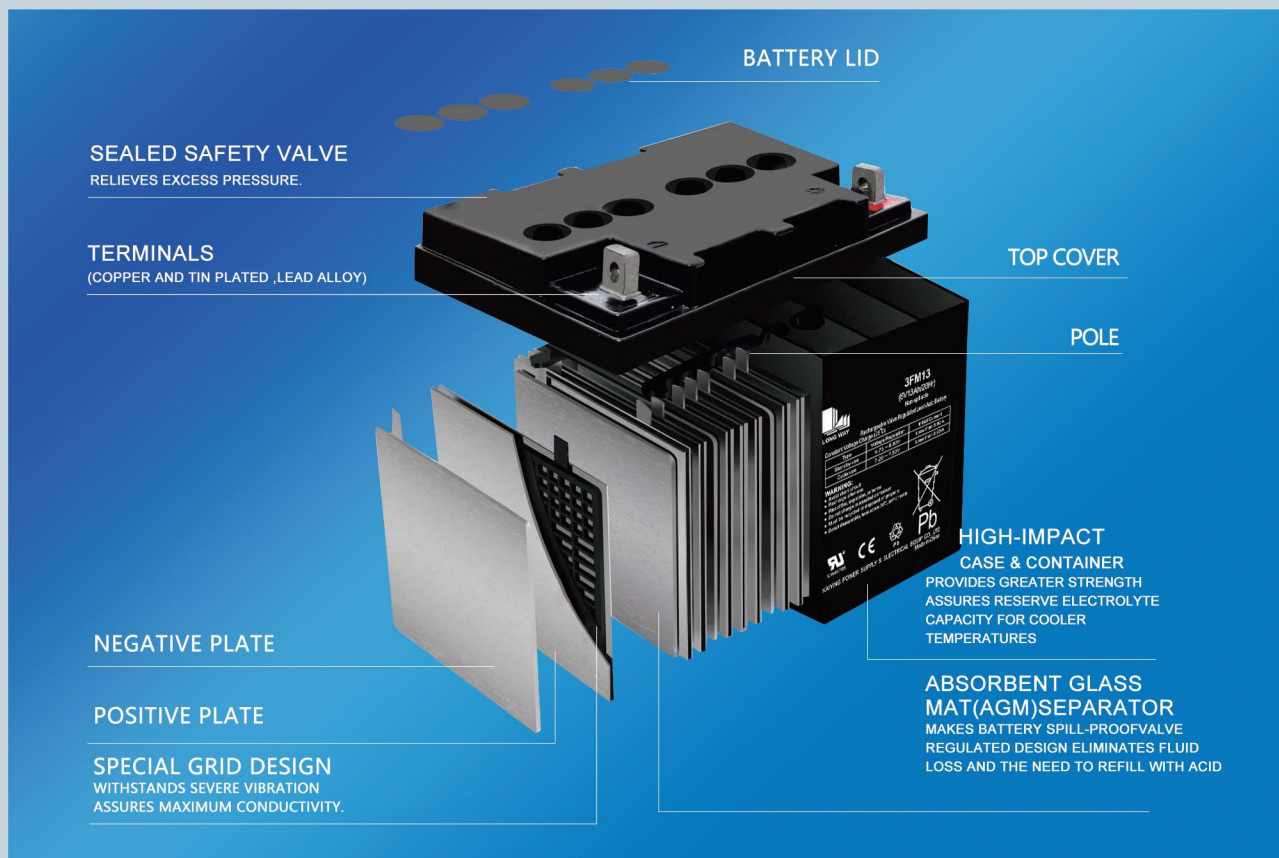
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● Battery Characteristics

- High reliability, safe without leakage. Batteries with a capacity of less than 24Ah have the advantage of being able to be inverted for continuous charging without leakage, and can be operated in any orientation.
- Stable quality, with similar product performance across different batches.
- Good storage performance and low self-discharge rate. The average monthly self-discharge rate of the battery is less than 2.5%. After being fully charged and stored for 12 months, the battery can still be used normally without affecting its lifespan.
- Strong resistance to over discharge and excellent recovery. Adopting a unique lead paste formula and plate matching design, it has strong resistance to over discharge performance.
- The battery adopts a solid grid design and a special lead paste formula, with a long service life.
- Strong charging reception ability.
- Maintenance free, no maintenance required during use, reducing maintenance costs.
- Wide working temperature range: LONGWAY batteries can discharge within the temperature range of -20 °C to 60 °C, and charge within the temperature range of 0 °C to 50 °C
- Environmentally friendly products that comply with the EU Battery Directive RoHS and REACH standards and do not contain toxic substances
- Battery complies with international standards such as EN/EC61056-2012 (International Electrotechnical Commission), JIS C8702-1-2003 (Japanese Industrial Standard), UL1989 (American Safety Standard), etc

● Product Structure Diagram





General Series Battery



General Battery Series

LONGWAY general battery series adopt AGM technology and valve regulated sealing technology, and their performance meets the requirements of general equipment usage. The product performance meets international standards, such as EN/IEC61056-2012, JIS C8702-1-2003, UL1989, and other international standards.

Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability, safe without leakage. Can be operated in any orientation.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Excellent storage performance. After being fully charged and stored for 12 months, the battery can be used normally without affecting its service life.
- Strong cycling ability, meeting the general service life.



Nominal capacity
0.8-3000Ah



Environmentally friendly



Grid plate



More than 300 cycles
@100%DOD



Recyclable



Valve regulated non-spillable



Maintenance-free

General Battery Series

● Small Capacity Battery (Capacity <24 Ah)

Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
2FM3.5	4	3.5	90	3.54	34	1.34	60	2.36	66	2.60	0.44	0.970	F1	C
2FM4	4	4.0	47.5	1.87	47.5	1.87	102	4.02	107	4.21	0.46	1.014	F1	D
2FM4.5	4	4.5	47.5	1.87	47.5	1.87	101	3.98	106	4.17	0.49	1.080	F1	D
3FM1.2	6	1.2	97	3.82	24	0.94	52	2.05	58	2.28	0.30	0.661	F1	C
3FM2.8	6	2.8	67	2.64	33	1.30	97.5	3.84	104	4.09	0.55	1.213	F1	A
3FM3.2	6	3.2	134	5.28	34.5	1.36	59.5	2.34	65.5	2.58	0.60	1.323	F1	C
3FM4	6	4.0	70	2.76	47.5	1.87	99	3.90	105	4.13	0.67	1.477	F1/F2	A
3FM4.5	6	4.5	70	2.76	47.5	1.87	99	3.90	105	4.13	0.73	1.609	F1/F2	A
3FM5	6	5.0	70	2.76	47.5	1.87	99	3.90	105	4.13	0.78	1.720	F1/F2	A
3FM4/S	6	4.0	67.5	2.66	67.5	2.66	96	3.78	110	4.33	0.74	1.631	T7	B
3FM7	6	7.0	151	5.94	35	1.38	94	3.70	100	3.94	1.02	2.249	F1/F2	C
3FM7.5	6	7.5	151	5.94	35	1.38	94	3.70	100	3.94	1.11	2.447	F1/F2	C
3FM8	6	8.0	98	3.86	56	2.20	115	4.53	115	4.53	1.40	3.086	F1/F2	B
3FM10	6	10.0	151	5.94	50.5	1.99	94	3.70	100	3.94	1.50	3.307	F1/F2	C
3FM12	6	12.0	151	5.94	50.5	1.99	94	3.70	100	3.94	1.64	3.616	F1/F2	C
3FM14	6	14.0	108	4.25	71	2.80	140	5.51	140	5.51	2.27	5.004	F3	E
6FM0.8	12	0.8	96.5	3.80	25	0.98	62	2.44	62	2.44	0.31	0.683	T4/T5	L
6FM1.2	12	1.2	97.5	3.84	43	1.69	52	2.05	58	2.28	0.58	1.279	F1	E
6FM2	12	2.0	151	5.94	20	0.79	90	3.54	90	3.54	0.62	1.367	F1	F
6FM2.4	12	2.4	178.5	7.03	35	1.38	61.5	2.42	67	2.64	0.92	2.028	F1	C
6FM2.2	12	2.2	70.5	2.78	47.5	1.87	99	3.90	104	4.09	0.74	1.631	F1	C
6FM2.6/A	12	2.6	105	4.13	48	1.89	70	2.76	70	2.76	0.87	1.918	PC	E
6FM3	12	3	90.5	3.56	47	1.85	100	3.94	106	4.17	0.95	2.094	F1	C
6FM3.2	12	3.2	134	5.28	67	2.64	60	2.36	66	2.60	1.17	2.579	F1/F2	E
6FM4	12	4	90	3.54	70	2.76	102	4.02	107	4.21	1.34	2.954	F1/F2	C
6FM4.5	12	4.5	90	3.54	70	2.76	102	4.02	107	4.21	1.43	3.153	F1/F2	C
6FM5	12	5	90	3.54	70	2.76	102	4.02	107	4.21	1.55	3.417	F1/F2	C
6FM7	12	7	151	5.94	65.5	2.58	94	3.70	100	3.94	2.01	4.431	F1/F2	F
6FM8	12	8	151	5.94	65.5	2.58	94	3.70	100	3.94	2.27	5.004	F1/F2	F
6FM9	12	9	151	5.94	65.5	2.58	94	3.70	100	3.94	2.58	5.688	F1/F2	F
6FM10/A	12	10	151	5.94	65	2.56	111	4.37	117	4.61	2.75	6.063	F2	F
6FM12	12	12	151	5.94	98	3.86	93	3.66	99	3.90	3.27	7.209	F2	F
6FM14	12	14	151	5.94	98	3.86	96	3.78	102	4.02	3.87	8.532	F2	F
6FM18	12	18	181	7.13	77	3.03	166	6.54	166	6.54	5.30	11.684	I1	D
6FM20	12	20	181	7.13	77	3.03	166	6.54	166	6.54	5.90	13.007	F5	D
9FM4.5	18	4.5	151	5.94	65	2.56	94	3.70	100	3.94	2.15	4.740	F2	A
9FM7	18	7	151	5.94	98	3.86	94	3.70	100	3.94	3.05	6.724	F2	A
12FM5	24	5	137	5.39	91	3.58	101	3.98	107	4.21	3.11	6.856	F2	C
12FM7	24	7	188	7.40	102	4.02	94.5	3.72	100	3.94	4.07	8.973	F2	D
12FM8	24	8	188	7.40	102	4.02	94.5	3.72	100	3.94	4.50	9.921	F2	D
12FM10	24	10	193	7.60	152	5.98	93	3.66	99	3.90	6.00	13.228	F2	D
12FM14	24	14	193	7.60	152	5.98	93	3.66	99	3.90	7.20	15.873	F2	D

● Medium Capacity Battery (Capacity≥24Ah)

Battery Model	Nominal Voltage V	Nominal Capacity Ah/10Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
3FM42B	6	42	162	6.38	88	3.46	163	6.42	170	6.69	5.70	12.566	F2/F5	A
3FM180G	6	180	306	12.05	168	6.61	222	8.74	227	8.94	25.80	56.879	I4	A
3FM220G	6	220	323	12.72	178	7.01	224	8.82	248	9.76	31.50	69.445	F15	A
4FM200U	8	200	260	10.24	180	7.09	280	11.02	280	11.02	35.50	78.263	I7	C
6FM24G	12	24	175	6.89	166	6.54	125	4.92	125	4.92	7.50	16.535	F8	D
6FM26G	12	26	175	6.89	166	6.54	125	4.92	125	4.92	8.25	18.188	F2/F8	D
6FM28G	12	28	175	6.89	166	6.54	125	4.92	125	4.92	8.60	18.960	F8	D
6FM28A/G	12	28	166	6.54	126	4.96	175	6.89	182	7.17	8.30	18.298	F9	D
6FM28B	12	28	166	6.54	126	4.96	175	6.89	178	7.01	8.30	18.298	I3	C
6FM30G	12	30	196	7.72	130	5.12	161	6.34	180	7.09	9.10	20.062	F10	C
6FM33G	12	33	196	7.72	130	5.12	161	6.34	167	6.57	9.60	21.164	I3	C
6FM35G	12	35	196	7.72	130	5.12	161	6.34	167	6.57	10.30	22.707	I3	C
6FM38G	12	38	196	7.72	166	6.54	175	6.89	175	6.89	12.50	27.558	I5	D
6FM40G	12	40	196	7.72	166	6.54	175	6.89	182	7.17	12.80	28.219	F9	D
6FM45G	12	45	196	7.72	166	6.54	175	6.89	182	7.17	13.70	30.203	F9	D
6FM50G	12	50	229	9.02	138	5.43	209	8.23	229	9.02	15.80	34.833	F25	C
6FM55G	12	55	229	9.02	138	5.43	209	8.23	229	9.02	17.20	37.919	F25	C
6FM50D	12	50	258	10.16	169	6.65	175	6.89	180	7.09	16.40	36.155	I4	D
6FM60D	12	60	258	10.16	169	6.65	175	6.89	180	7.09	17.70	39.021	I4	D
6FM65G	12	65	350	13.78	166	6.54	175	6.89	175	6.89	20.50	45.194	F13	D
6FM70G	12	70	260	10.24	169	6.65	211	8.31	231	9.09	21.10	46.517	F12	C
6FM80A/G	12	80	307	12.09	167	6.57	211	8.31	231	9.09	25.40	55.997	F12	C
6FM90G	12	90	307	12.09	167	6.57	211	8.31	216	8.50	26.50	58.422	I6	C
6FM90C/G	12	90	307	12.09	167	6.57	211	8.31	231	9.09	24.50	54.013	F12	C
6FM95G	12	95	307	12.09	167	6.57	211	8.31	216	8.50	28.00	61.729	I6	C
6FM100A/G	12	100	331	13.03	173	6.81	217	8.54	222	8.74	28.50	62.831	I6	C
6FM100B/G	12	100	331	13.03	173	6.81	217	8.54	222	8.74	30.10	66.358	I6	C
6FM120B	12	120	331	13.03	173	6.81	217	8.54	222	8.74	30.50	67.240	I6	C
6FM100D/G	12	100	405	15.94	173	6.81	210	8.27	237	9.33	32.00	70.547	F19	C
6FM120	12	120	405	15.94	173	6.81	210	8.27	237	9.33	35.00	77.161	F19	C
6FM150G	12	150	485	19.09	170	6.69	241	9.49	241	9.49	43.50	95.900	F20	C
6FM160G	12	160	341	13.43	173	6.81	283	11.14	288	11.34	45.00	99.207	I5	C
6FM160B/G	12	160	532	20.94	207	8.15	215	8.46	240	9.45	51.50	113.537	F21	E
6FM200G	12	200	522	20.55	238	9.37	217	8.54	238	9.37	58.00	127.867	F22	E
6FM200G	12	200	522	20.55	238	9.37	217	8.54	222	8.74	58.00	127.867	I7	E
6FM220G	12	220	521	20.51	269	10.59	220	8.66	246	9.69	67.50	148.811	F21	E
6FM230G	12	230	521	20.51	269	10.59	203	7.99	229	9.02	65.00	143.299	F21	F
6FM250G	12	250	521	20.51	269	10.59	220	8.66	246	9.69	71.00	156.527	F21	E

2V Large Capacity Battery



● 2V Large Capacity Battery (Capacity 100Ah-3000 Ah)

Battery Model	Nominal Voltage V	Nominal Capacity Ah/10Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
FM100G	2	100	171	6.73	72	2.83	205	8.07	210	8.27	6.00	13.228	I7	A
FM150G	2	150	172	6.77	102	4.02	205	8.07	222	8.74	8.00	17.637	I7	A
FM200G	2	200	172	6.77	111	4.37	335	13.19	365	14.37	13.30	29.321	I7	G
FM200E	2	200	172	6.77	111	4.37	335	13.19	365	14.37	12.00	26.455	I7	G
FM300G	2	300	172	6.77	151	5.94	340	13.39	365	14.37	18.50	40.785	I7	G
FM300E	2	300	172	6.77	151	5.94	340	13.39	365	14.37	17.50	38.581	I7	G
FM350G	2	350	172	6.77	151	5.94	340	13.39	365	14.37	19.00	41.887	I7	G
FM400G	2	400	211	8.31	175	6.89	336	13.23	365	14.37	25.50	56.217	I7	H
FM400E	2	400	211	8.31	175	6.89	336	13.23	365	14.37	25.00	55.115	I7	H
FM500G	2	500	242	9.53	173	6.81	338	13.31	365	14.37	30.00	66.138	I7	H
FM500E	2	500	240	9.45	173	6.81	338	13.31	365	14.37	29.50	65.036	I7	H
FM600G	2	600	302	11.89	175	6.89	340	13.39	365	14.37	36.00	79.366	I7	H
FM600E	2	600	302	11.89	175	6.89	340	13.39	365	14.37	35.50	78.263	I7	H
FM800G	2	800	410	16.14	176	6.93	340	13.39	365	14.37	51.00	112.435	I7	I
FM800E	2	800	410	16.14	176	6.93	340	13.39	365	14.37	50.00	110.230	I7	I
FM1000G	2	1000	475	18.70	175	6.89	337	13.27	365	14.37	60.00	132.276	I7	I
FM1000E	2	1000	475	18.70	175	6.89	337	13.27	365	14.37	59.00	130.071	I7	I
FM1500G	2	1500	401	15.79	351	13.82	342	13.46	378	14.88	88.00	194.005	I7	J
FM2000G	2	2000	491	19.33	351	13.82	344	13.54	383	15.08	110.00	242.506	I7	K
FM2500G	2	2500	491	19.33	351	13.82	344	13.54	383	15.08	118.00	260.143	F13	K
FM3000G	2	3000	712	28.03	353	13.90	341	13.43	382	15.04	175.00	385.805	F13	K



● Electric Toy Car Battery

LONGWAY electric toy car battery are designed and developed specifically for children's electric ride-on car and electric scooters. It adopts a special lead paste formula and Battery formation, ensuring that the products have advantages such as long cycle life, low self-discharge rate, and strong storage capacity. Products meet the requirements of IEC and DOE energy efficiency standards, and obtained UL, CE, RoHS certification. They can be shipped by sea or air.

● Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- Safe without leakage. Can be operated in any direction.
- High reliability, battery does not explode or catch fire.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Excellent storage performance. After being fully charged and stored for 12 months, the battery can be used normally without affecting its service life.
- Meet the lifespan of toy car cycle service, more than 300 cycles.

● Electric Toy Car Battery

Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
3FM2.8	6	2.8	66	2.60	33	1.30	97.5	3.84	104	4.09	0.50	1.10	F1	A
3FM4	6	4.0	70	2.76	47.5	1.87	99	3.90	105	4.13	0.67	1.48	F1/F2	A
3FM4.5	6	4.5	70	2.76	47.5	1.87	99	3.90	105	4.13	0.73	1.61	F1/F2	A
3FM5	6	5.0	70	2.76	47.5	1.87	99	3.90	105	4.13	0.78	1.72	F1/F2	A
3FM7	6	7.0	151	5.94	35	1.38	94	3.70	100	3.94	1.02	2.25	F1/F2	C
3FM8	6	8.0	151	5.94	35	1.38	94	3.70	100	3.94	1.16	2.56	F1/F2	C
3FM10	6	10.0	151	5.94	50.5	1.99	94	3.70	100	3.94	1.50	3.31	F1/F2	C
3FM12	6	12.0	151	5.94	50.5	1.99	94	3.70	100	3.94	1.64	3.62	F1/F2	C
6FM4	12	4	90	3.54	70	2.76	102	4.02	107	4.21	1.34	2.95	F1/F2	C
6FM4.5	12	4.5	90	3.54	70	2.76	102	4.02	107	4.21	1.43	3.15	F1/F2	C
6FM5	12	5	90	3.54	70	2.76	102	4.02	107	4.21	1.55	3.42	F1/F2	C
6FM5.5	12	5.5	151	5.94	51.5	2.03	93	3.66	99	3.90	1.70	3.75	F1/F2	F
6FM7	12	7	151	5.94	65.5	2.58	94	3.70	100	3.94	2.01	4.43	F1/F2	F
6FM7.5	12	7.5	151	5.94	65.5	2.58	94	3.70	100	3.94	2.11	4.65	F1/F2	F
6FM8	12	8	151	5.94	65.5	2.58	94	3.70	100	3.94	2.27	5.00	F1/F2	F
6FM9	12	9	151	5.94	65.5	2.58	94	3.70	100	3.94	2.58	5.69	F1/F2	F
6FM10	12	10	151	5.94	98	3.86	93	3.66	99	3.90	3.00	6.61	F2	F
6FM12	12	12	151	5.94	98	3.86	93	3.66	99	3.90	3.27	7.21	F2	F
6FM14	12	14	151	5.94	98	3.86	96	3.78	102	4.02	3.87	8.53	F2	F
6FM20	12	20	181	7.13	77	3.03	166	6.54	166	6.54	5.30	11.68	F5	D
6FM2.3	12	2.3	70.5	2.78	47.5	1.87	99	3.90	104	4.09	0.74	1.63	F1	C
6FM5/R	12	5	90	3.54	70	2.76	99	3.90	104	4.09	1.60	3.53	F1	C
6FM6/R	12	6	151	5.94	51.5	2.03	93	3.66	99	3.90	1.75	3.86	F1/F2	F
6FM7/R	12	7	151	5.94	65.5	2.58	94	3.70	100	3.94	2.62	5.78	F1/F2	F
6FM12	12	14	151	5.94	98	3.86	96	3.78	102	4.02	4.00	8.82	F2	F
9FM7	18	8	151	5.94	98	3.86	94	3.70	100	3.94	3.05	6.72	F2	A
12FM5	24	5	137	5.39	91	3.58	101	3.98	107	4.21	3.11	6.86	F2	C
12FM7	24	7	188	7.40	102	4.02	94.5	3.72	100	3.94	4.07	8.97	F2	D
12FM8	24	8	188	7.40	102	4.02	94.5	3.72	100	3.94	4.50	9.92	F2	D
12FM10	24	10	193	7.60	152	5.98	93	3.66	99	3.90	6.00	13.23	F2/I8	D
12FM14	24	14	193	7.60	152	5.98	93	3.66	99	3.90	7.20	15.87	F2/I8	D



Nominal capacity
2.8-14Ah



Environmentally friendly



Grid plate



More than 300 cycles
@100%DOD



Recyclable



Valve regulated
non-spillable



Maintenance-free



Sound/Speaker System Battery



● Sound/Speaker System Battery

LONGWAY sound/speaker battery is designed and developed according to the characteristics of instantaneous large current, deep discharge and easy over-discharge in the use of sound/speaker. The battery has the advantages of long cycle life, good performance of large current discharge, low self-discharge rate and strong recovery ability after over-discharge, etc. Products obtained UL, CE, RoHS certification and can be shipped by sea or air.



Nominal capacity
2.2-35Ah



Environmentally friendly



Grid plate



More than 300 cycles @100%DOD



Recyclable



Valve regulated non-spillable



Maintenance-free

● Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability, safe without leakage. Can be operated in any orientation.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Excellent storage performance. After being fully charged and stored for 12 months, the battery can be used normally without affecting its service life.
- Strong cycle ability, meeting the service life of the sound/speaker system, more than 300 times .

Deep Cycle Battery Series

● Sound/Speaker System Battery

General Sound/Speaker System Battery

Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
4FM4	8	4	90	3.54	52.5	2.07	101	3.98	106	4.17	0.94	2.07	F1	F
6FM2.2	12	2.2	70.5	2.78	47.5	1.87	99	3.90	104	4.09	0.74	1.63	F1	C
6FM2.6	12	2.6	70.5	2.78	47.5	1.87	99	3.90	104	4.09	0.81	1.79	F1	C
6FM3	12	3	90.5	3.56	47	1.85	100	3.94	106	4.17	0.95	2.09	F1	C
6FM3.5	12	3.5	90.5	3.56	47	1.85	100	3.94	106	4.17	1.00	2.20	F1	C
6FM4	12	4	90	3.54	70	2.76	102	4.02	107	4.21	1.34	2.95	F1/F2	C
6FM4.5	12	4.5	90	3.54	70	2.76	102	4.02	107	4.21	1.43	3.15	F1/F2	C
6FM5	12	5	90	3.54	70	2.76	102	4.02	107	4.21	1.55	3.42	F1/F2	C
6FM7	12	7	151	5.94	65.5	2.58	94	3.70	100	3.94	2.05	4.52	F1/F2	F
6FM7.5	12	7.5	151	5.94	65.5	2.58	94	3.70	100	3.94	2.11	4.65	F1/F2	F
6FM9	12	8	151	5.94	65.5	2.58	94	3.70	100	3.94	2.25	4.96	F1/F2	F
6FM10	12	10	151	5.94	98	3.86	93	3.66	99	3.90	3.00	6.61	F2	F
6FM14	12	14	151	5.94	98	3.86	93	3.66	99	3.90	3.50	7.72	F2	F
6FM18	12	18	181	7.13	77	3.03	166	6.54	166	6.54	5.30	11.68	F5	D
6FM20	12	20	181	7.13	77	3.03	166	6.54	166	6.54	5.90	13.01	F5	D
9FM7	18	7	151	5.94	98	3.86	94	3.70	100	3.94	3.05	6.72	F2	A
12FM10	24	10	193	7.60	152	5.98	93	3.66	99	3.90	6.00	13.23	F2	D
6FM28G	12	28	166	6.54	126	4.96	175	6.89	178	7.01	8.30	18.30	F9	D
6FM35G	12	35	196	7.72	130	5.12	161	6.34	180	7.09	10.30	22.71	F10	C

Long Service Life Sound/Speaker System Battery

Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
4FM5.5	8	5.5	90	3.54	52.5	2.07	101	3.98	106	4.17	1.13	2.49	F1	F
4FM7	8	7	90	3.54	63.0	2.48	101	3.98	106	4.17	1.37	3.02	F1/F2	F
6FM3	12	3	90.5	3.56	47.0	1.85	100	3.94	106	4.17	0.95	2.09	F1	C
6FM5.5	12	5.5	90	3.54	70.0	2.76	102	4.02	107	4.21	1.62	3.57	F1/F2	C
6FM8	12	8	151	5.94	65.5	2.58	94	3.70	100	3.94	2.43	5.36	F1/F2	F
6FM12	12	12	151	5.94	98.0	3.86	93	3.66	99	3.90	3.55	7.83	F2	F
6FM20	12	20	181	7.13	77.0	3.03	166	6.54	166	6.54	5.95	13.12	F5	D
6FM24G	12	24	175	6.89	166	6.54	125	4.92	125	4.92	7.50	16.53	F8	D
6FM28G	12	28	175	6.89	166	6.54	125	4.92	125	4.92	7.85	17.31	F8	D
6FM35G	12	35	196	7.72	130.0	5.12	161	6.34	180	7.09	11.00	24.25	F10	C
9FM4.5	18	4.5	151	5.94	65.0	2.56	94	3.70	100	3.94	2.15	4.74	F2	A
9FM8	18	8	151	5.94	98.0	3.86	94.5	3.72	100	3.94	3.80	8.38	F2	A



Electrical Scales Battery

LONGWAY electrical scales battery series are specially designed and developed for weighing instruments. It is developed according to the characteristics of small current, long-time use, low charge state storage, frequent over-discharge, and low charging voltage when the weighing scale in actual use. We adopt advanced R&D technology to ensure that the battery has high reliability, safety without leakage, strong over-discharge resistance, good recovery ability and long service life. The products have obtained UL, CE, RoHS certification, and can be shipped by sea or air.

Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability, safe without leakage. Can be operated in any orientation.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Long service life, with a remaining capacity of more than 50% rated capacity after 96 cycles @ 100hr of full capacity test.
- After stored continuously for 120 days at 50% SOC, it can still be used normally.



Nominal capacity
1.2-10Ah



Environmentally friendly



Grid plate



More than 300 cycles @100%DOD



Recyclable



Valve regulated non-spillable



Maintenance-free

Electrical Scales Battery



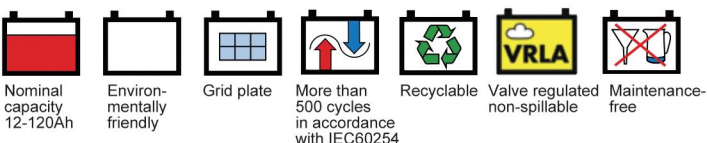
Electrical Scales Battery

Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
2FM4	4	4.0	47.5	1.87	47.5	1.87	102	4.02	107	4.21	0.45	0.99	F1	D
2FM4.5	4	4.5	47.5	1.87	47.5	1.87	101	3.98	106	4.17	0.49	1.08	F1	D
3FM1.2	6	1.2	97	3.82	24	0.94	52	2.05	58	2.28	0.29	0.64	F1	C
3FM2.8	6	2.8	67	2.64	33	1.30	97.5	3.84	104	4.09	0.55	1.21	F1	A
3FM3.2	6	3.2	47.5	1.87	47.5	1.87	100	3.94	105	4.13	0.49	1.08	F1	A
3FM4	4	4.0	70	2.76	47.5	1.87	99	3.90	105	4.13	0.62	1.37	F1/F2	A
3FM4.5	6	4.5	70	2.76	47.5	1.87	99	3.90	105	4.13	0.73	1.61	F1/F2	A
3FM5	6	5.0	170	6.69	35	1.38	70	2.76	75	2.95	0.89	1.96	F1/F2	A
3FM7	6	7.0	151	5.94	35	1.38	94	3.70	100	3.94	1.02	2.25	F1/F2	C
3FM10	6	10.0	151	5.94	50.5	1.99	94	3.70	100	3.94	1.50	3.31	F1/F2	C
6FM1.2	12	1.2	97.5	3.84	43	1.69	52	2.05	58	2.28	0.58	1.27	F1	E
6FM7	12	7	151	5.94	65.5	2.58	94	3.70	100	3.94	2.01	4.43	F1/F2	F



Power Battery Series

LONGWAY power battery belongs to deep cycle battery. The series adopts special active materials and heavy-duty grids to provide reliable performance, ensure more than 300 cycles @100%DOD under high loads. It has high energy density and good vibration resistance, and has the advantages of high safety and reliability, maintenance-free, high charging rate, low self-discharge and long life. Widely used in electric vehicles, electric scooters, electric wheelchairs, police patrol cars and so on.



Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability. The battery has no explosion or fire according to SAE J1495-2018 ignition and explosion-proof test.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Excellent storage performance. After being fully charged and stored for 12 months, the battery can be used normally without affecting its service life.
- Strong cycle ability. More than 500 cycles in accordance with IEC60254.

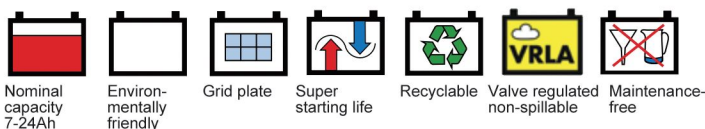
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● Jump-Starter Battery

LONGWAY jump-starter battery used for emergency start power. It adopts the design of thin and multi plate, and the special lead paste formula can improve the instantaneous high current discharge (100-1000A) performance of the battery, which can meet the requirements of vehicle starting in emergency situations. Mainly used for Jump-starter, lawn mower, car backup ignition etc. The products obtained UL, CE, RoHS certifications and can be shipped by sea or air.

Jump-Starter Battery



Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability, safe without leakage. Can be operated in any orientation.
- Excellent start ability at low temperature. High current discharge is tested at -18°C and -5°C can be discharged continuously for more than 30 seconds
- Good cycle life of high current discharge. After continuous 200 cycles of high current discharge, almost no attenuation of discharge time.
- Excellent storage performance. After being fully charged and stored for 6 months without affecting the vehicle's ability to start in case of emergency.

Jump-starter Battery

Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
6FM7/A	12	7	151	5.94	65	2.56	96	3.78	108	4.25	2.27	5.00	F6	D
6FM9	12	9	151	5.94	65	2.56	110.5	4.35	123	4.84	2.75	6.06	F6	D
6FM12/A	12	12	151	5.94	98	3.86	94	3.70	105	4.13	3.45	7.61	F6	D
6FM12	12	12	151	5.94	98	3.86	98	3.86	120	4.72	3.78	8.33	F7	F
6FM14	12	14	151	5.94	98	3.86	98	3.86	120	4.72	3.90	8.60	F7	F
6FM7/B	12	7	151	5.94	65.5	2.58	94	3.70	106	4.17	2.28	5.03	F7	F
6FM8	12	8	151	5.94	65.5	2.58	94	3.70	106	4.17	2.55	5.62	F7	F
6FM12/B	12	12	151	5.94	98	3.86	93	3.66	105	4.13	3.45	7.61	F7	F
6FM18	12	18	181	7.13	77	3.03	166	6.54	166	6.54	5.74	12.65	F5	D
6FM20	12	20	181	7.13	77	3.03	166	6.54	166	6.54	5.98	13.18	F5	D
6FM22	12	22	181	7.13	77	3.03	166	6.54	166	6.54	6.15	13.56	F5	D

High-Rate Battery

● High-Rate Battery

LONGWAY high-rate battery belongs to float charge high-rate backup lead acid battery. Adopting a high-rate lead paste formula with high discharge characteristics, meanwhile optimizing the grid design and grid alloy to achieve excellent float charging ability. They are widely used in UPS, electric power system etc. As a float charging backup long-life battery, it has good float charging performance and excellent consistency.



● Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability, safe without leakage.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- High energy density which can output more energy.
- Higher energy density. 20% higher than that of the same volume product under high discharge rate.



Nominal capacity
5-100Ah



Environmentally friendly



Grid plate



More than 6 months float charge at 60°C



Recyclable



Valve regulated non-spillable



Maintenance-free



High-Rate Battery

Battery Model	Nominal Voltage V	Nominal Capacity AH	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
3FM12 (6V51W/cell/1.60V/15Min)	6	12	151	5.9	50.5	2.0	94	3.7	100	3.9	1.70	3.75	F1/F2	C
6FM5 (12V21W/cell/1.60V/15Min)	12	5	90	3.5	70	2.8	102	4.0	107	4.2	1.68	3.70	F1/F2	C
6FM6 (12V24W/cell/1.60V/15Min)	12	6	151	5.9	51.5	2.0	93	3.7	99	3.9	1.92	4.23	F1/F2	F
6FM7 (12V28W/cell/1.60V/15Min)	12	7	151	5.9	65.5	2.6	94	3.7	100	3.9	2.40	5.29	F2	F
6FM9 (12V34W/cell/1.60V/15Min)	12	8	151	5.9	65.5	2.6	94	3.7	100	3.9	2.55	5.62	F2	F
6FM9 (12V36W/cell/1.60V/15Min)	12	9	151	5.9	65.5	2.6	94	3.7	100	3.9	2.58	5.69	F2	F
6FM12 (12V51W/cell/1.60V/15Min)	12	12	151	5.9	98	3.9	93	3.7	99	3.9	3.70	8.16	F2	F
6FM9 (12V580W/cell/9.60V/5Min)	12	9	151	5.9	65.5	2.6	94	3.7	100	3.9	2.70	5.95	F2	F
6FM90G (12V330W/cell/9.60V/15Min)	12	90	307	12.1	167	6.6	211	8.3	216	8.5	28.00	61.73	I6	C



● Telecom/ Power Backup Battery

LONGWAY front terminal telecom/power backup battery adopts front conversion terminal design. It is fast and easy installation, save space, long service life for float charge service, and has high energy density. They are suitable for communication, UPS system etc. backup power, also widely used for solar storage system.

● Telecom/ Power Backup Battery

● Technical Features

- Maintenance free, no need to add water or other maintenance during use.
- High reliability, safe without leakage.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Partition design. Can protect the terminals from short circuits and has a good appearance.
- Thick plate design, special formula paste process with longer service life.

Battery Model	Nominal Voltage V	Nominal Capacity Ah/10Hr	Length		Width		Height		Total Height		Weight		Terminal	
			mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
6FM55FR	12	55	291	11.46	106	4.2	226	8.9	235	9.3	18.0	39.7	I4	E
6FM75FR	12	75	562	22.13	115	4.5	187	7.4	196	7.7	23.0	50.7	I6	E
6FM85FR	12	85	562	22.13	115	4.5	187	7.4	196	7.7	25.5	56.2	I6	E
6FM105FR	12	105	527	20.75	110	4.3	225	8.9	232	9.1	32.5	71.6	I4	E
6FM110FR	12	110	410	16.14	110	4.3	288	11.3	295	11.6	33.5	73.9	I6	E
6FM125FR	12	125	548	21.57	109	4.3	239	9.4	239	9.4	36.0	79.4	I6	E
6FM150FR	12	150	565	22.24	110	4.3	288	11.3	295	11.6	45.5	100.3	I6	E
6FM180FR	12	180	560	22.05	125	4.9	316	12.4	316	12.4	54.0	119.0	I6	E

Nominal capacity 55-200Ah

Environmentally friendly

Grid plate

More than 300 cycles @100%DOD

Recyclable

Valve regulated non-spillable

Maintenance-free

Start/Stop Battery

Start/Stop Battery

LONGWAY start/stop battery is suitable for vehicle start/stop system. This series battery adopts patented rare-earth alloy, unique paste formula and additives to ensure the product has a long service life. It complies with IEC60095-1/2008, VDA start/stop Battery standard specification (AGM), GB/T12666-2016 standards. Valve-regulated & lean-liquid design ensure AGM battery has no any acid mist spillover, which is safe, reliable and maintenance-free.

Start/Stop Battery

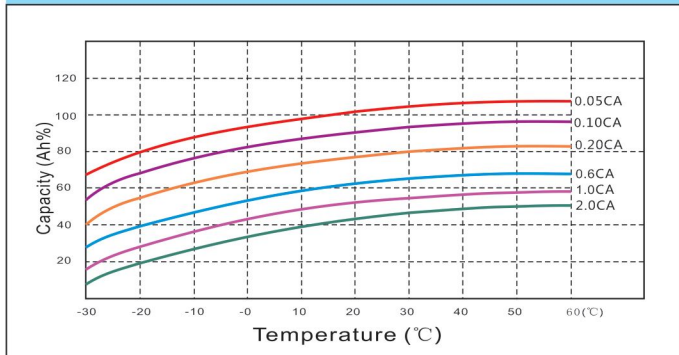
Battery Model	Nominal Voltage V	Nominal Capacity Ah/20Hr	Reserve Capacity Min	CCA	Length		Width		Height		Total Height		Weight		Terminal	
					mm	in	mm	in	mm	in	mm	in	kg	lbs	Type	Position
H4-50-L-T2-A	12	50	80	550	207	8.15	174	6.85	189	7.44	189	7.44	15.40	33.95	F28	D
H5-60-L-T2-A	12	60	100	660	241	9.49	175	6.89	189	7.44	189	7.44	18.20	40.12	F28	D
H6-70-L-T2-A	12	70	120	720	277	10.91	175	6.89	189	7.44	189	7.44	21.00	46.30	F28	D
H7-80-L-T2-A	12	80	140	800	316	12.44	175	6.89	189	7.44	189	7.44	24.00	52.91	F28	D
H8-92-L-T2-A	12	92	160	850	353	13.90	175	6.89	189	7.44	189	7.44	27.00	59.52	F28	D
H9-105-L-T2-A	12	105	190	950	393	15.47	175	6.89	189	7.44	189	7.44	30.00	66.14	F28	D

Technical Features

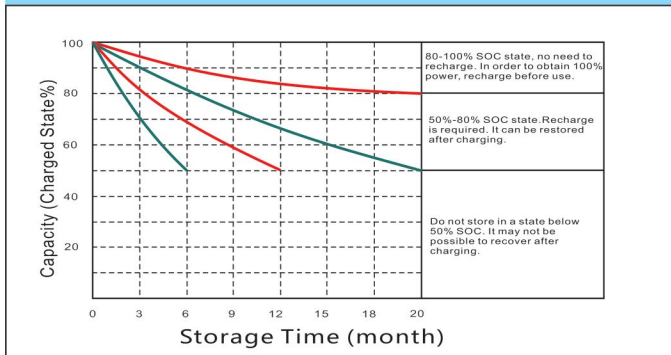
- Maintenance free, no need to add water or other maintenance during use.
- High reliability, no liquid leakage due to high-frequency vibration.
- Low self-discharge rate, with an average monthly self-discharge rate below 2.5%.
- Strong start/stop cycle ability with 300A current which far beyond standard .
- Cycle test @50% DOD more than 400 times in water bath at 40°C.

Battery Characteristic

Temperature and capacity characteristics



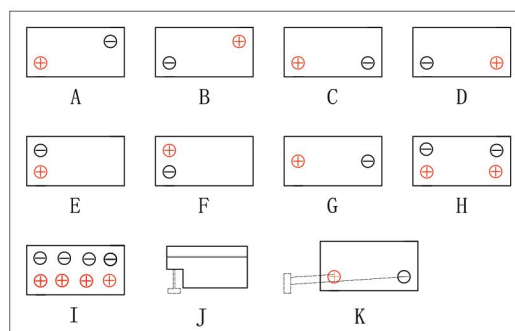
Self-discharge characteristic



Warning

- Do not use the battery in a sealed container or in the environment temperature above 60°C.
- Do not directly connect the battery positive and negative terminals with conductors. Do not reverse the battery positive and negative terminals when installing. Do not cut open the battery to avoid touching the leaking sulfuric acid solution.
- The connection of all parts of the battery should be firm to avoid accidental impact and vibration, resulting in fire or even accidents.
- Do not install the battery near heat sources and equipment that may generate sparks (such as switches, fuses, etc.).
- If the battery is deformed, cracked or smelled during usage, storage and transportation, please replace with new batteries.
- The battery discharge termination voltage shall be strictly observed, and shall not be over-discharged. Over-discharge may seriously affect the battery capacity.
- Immediately recharge after discharging, otherwise it will seriously affect the battery capacity and service life.
- Regularly check the open circuit voltage of charged battery. If it is lower than the rated voltage, replace it with a new one.
- Batteries with different types, different capacities, different manufacturers, different state of charge must not be mixed.

Terminal Position Diagram



Storage

- Fully charge the battery before storage.
- If the battery is stored at 25°C ambient temperature, it should be charged at least every six months.
- Battery should not be exposed to moisture or rain during storage.
- Battery should not be placed near heat sources.
- When using a stored battery, always carry out supplementary charging before use.

Transportation

- Avoid vibrate or shock it excessively during battery transportation.
- When transporting battery connected to an equipment, secure it firmly and keep the terminal in open circuit state.
- Be careful when handling the battery to avoid personal injury or damage to the battery.

Terminal Diagram Details

				
F2	F2	F3	F4	F5
				
F6	F7	F8	F9	F10
				
F11	F12	F13	F14	F15
				
F16	F17	F18-	F18+	F19
				
F20	F21	F22	F23	F24
				
F25	F26	I1	I2	I3
				
I4	I5	I6	I7	I8

Cooperation • Win-Win • Innovative • Development



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