

A BRIEF INTRODUCTION OF TEMCO BATTERY

TEMCO series battery are designed with Absorbed Glass Mat technology, first class technical work force, modern management practices and most popular applications.

AGM Battery General Features:

Long life: Advanced technology and modern machines make GOOD batteries/Over 8~10 years Floating life/Completed Performance test/Corrosion resistance raise from High-tin alloy grid inside.

High over-discharge tolerance: Adopting dedicated ultra-fine glass fiber separators with high porosity and high wet-elasticity, combining with high-pressure tighten assembly technology, the battery has a high tolerance for super over-discharge. After 5 times of over-discharges which cause the short circuit, battery capacity restoration can reach more than 95%.

Super cycling ability: Special electrolyte additives, curing process at high temperature and high humidity are employed to delay the softening of active material in cycling, therefore the deep cycle endurance is improved efficaciously. Its cycle life in daily float charging can reach over 800 times as per the requirement of IEC60896-22-2004.

Excellent high-current performance: Tighten assembly is designed to reduce distance of battery plates, to improve the high current discharge performance.

Safety and Reliability: Our patented terminal sealing construction and the cuing process of the adhesive at high temperature, ensure no acid leakage from the roots of terminals, and therefore ensure safe and reliable operation.

Variety of installation: With no free liquid electrolyte inside, Just batteries can be installed vertically as well as horizontally.

Battery designed life: 15years

Gel Battery Special Advantages:

Full recovery from deep discharge, even when the battery is not recharged immediately.

Ideal for repeat cycling daily use.

Excellent performance overlong discharges

Good tolerance to higher temperature applications

Suitable where mains power is unstable

Zero stratification due to immobilized electrolyte

Reduced self-discharge

Limiting design protects the positive plates to greatly improve cycle life

Improved charge acceptance due to low internal resistance

High resistance to water loss with the right charging set up

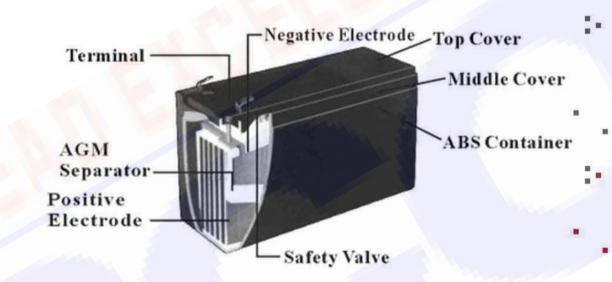
Ultra stable polymerseparator with glass mat for increased performance

High resistance to shorting due to superior mechanical strength of the polymer separator

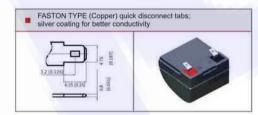
Increased tolerance to poor charging parameters

Can be discharged even when full recharge has not been achieved, without loss of battery capacity

Battery designed life: 20 years



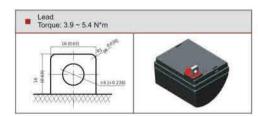
Terminal Type

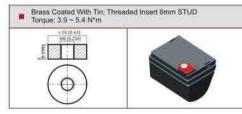


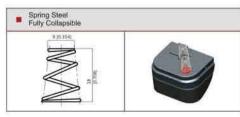


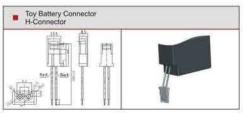












Typical Applications:

Switching system, DC power system

Cable Television

UPS System

EPS System

Emergency Lighting System

Alarm System

Control Equipments

Geophysical Equipment

Medical Equipment

Portable Cine & Video Lights

Power Tools

Vending Machine

Toys

TV& Video Recorders

Railway Signal

Fire and Security System

Telecommunications & Communication System

Marine Equipment

Power Station

Aerospace and navigation

Rail transit

Military area

Photovoltaic Solar Power Storage System

Wind Energy Storage System

Renewable Energy Storage System

Solar Street Light System

Solar Power Home System

Middle Size 24-250AH

Model	Norminal Voltage		Rate Cap	pacity(ah)			Dimens	sion(mm)		Approx Weight	Terminal
	V	20HR (1.80V/Cell)	10HR (180V/Cell)	5HR (1.75V/Cell)	1 HR (1.60V/Ceil)	Length	Width	Height	Total Height	kg	Туре
FM/12024	12	24	22.32	20.4	15.07	165	175	125	125	8	T3/T12
FM/12026	12	26	24.18	22.1	16.33	165	175	125	125	8.2	T3/T12
FM/12030	12	30	27.9	25.5	18.84	165	175	125	125	8.8	T12
FM/12033	12	33	30.69	28.5	20.8	195	130	162	166	11.5	T6/T12
FM/12035	12	35	32.55	29.75	21.98	195	130	162	166	12	T6/T12
FM/12038	12	39.5	38	32.7	23.2	197	165	170	170	12.2	T6/T12
FM/12040	12	40	38.5	33.1	23.5	197	165	170	170	12.5	T7
FM/12045	12	46.8	45	38.7	27.5	197	165	170	170	14.2	T6/T12
FM/12050	12	52	50	43	30.5	257	132	200	200	17	T6
FM/12055	12	57.2	55	47.3	33.6	228	138	205	226	18	T6/T9/T14
FM/12060	12	62.4	60	51.6	36.6	259	168	208	214	19	T6/T124
FM/12065	12	65	65	53.8	38.1	350	166	175	175	20	T6
FM/12070	12	72.8	70	60.2	42.7	350	166	175	175	21	T6
FM/12075	12	78	75	64.5	45.8	259	168	208	214	22.3	T6/T9
FM/12080	12	83.2	80	58.8	48.8	259	168	208	214	24	T6
FM/12090	12	93.6	90	77.4	54.9	306	168	210	235	27	T11
FM/12100	12	104	100	86	61	330	173	212	220	28	J11
FM/12120	12	124.8	120	103.2	73.2	408	172	237	237	32	T11
FM/12135	12	140.4	135	116.1	82.4	344	171	274	280	36	T11
FM/12150	12	156	150	129	91.5	482	170	241	241	41	T11
FM/12165	12	170.4	165	142.8	102.6	532	207	215	240	48	T11
FM/12180	12	187.2	180	154.8	109.8	532	207	215	240	52	T11
FM/12200	12	208	200	172	122	522	240	218	224	55	T11
FM/12220	12	229	220	198	140.1	521	269	203	203	59	T11
FM/12250	12	260	250	215	152.5	520	268	220	226	65	T11
FM/6036	6	36	33.48	30.6	22.61	161	87	163	169	5.5	T2/T3
FM/6060	6	62	60	51.6	36.6	185	112	205	205	9.1	T2/T3
FM/6100	6	104	100	86	61	195	170	206	212	15.6	T6
FM/6120	6	124.8	120	103.2	73.2	280	128	203	203	16.8	Т6
FM/6150	6	156	150	129	91.5	260	180	247	253	21.2	17
FM/6200	6	208	200	172	122	306	168	222	228	28.2	T8
FT/12055	12	60	55	48	34	227	106	223	225	17	Т9
FT/12075	12	70	75	65	46.5	562	114	188	190	25	M8
FT/12100	12	110	100	87	62	506	110	224	239	31	Т9
FT/12100	12	110	100	87	62	395	110	286	286	31	Т9
FT/12150	12	165	150	131	93	551	110	287	287	45	T11
FT/12180	12	200	180	177	112	560	126	280	280	55	T11

Small Size 0.4-30AH

Model	Norminal Voltage	Rate Capacity(ah)					Dimens	Approx Weight	Terminal		
	V	20HR (1.80V/Cell)	1 OHR (1.80V/Cell)	5HR (1.75V/CeII)	1 HR (1.60V/Cell)	Length	Width	Height	Total Height	kg	Туре
FM/12-0.8	12	0.8	0.74	0.68	0.5	96	25	62	62	0.35	1
FM/12-1.2	12	1.2	1.12	1.02	0.75	97	43	52	58	0.57	T1
FM/12-1.9	12	1.9	1.77	1.62	1.19	178	35	60	66	0.87	TI
FM/12-2	12	2	1.86	1.7	1.26	178	35	60	66	0.68	1
FM/12-2.3	12	2.3	2.14	1.96	1.44	178	35	60	66	0.96	TI
FM/12-2.8	12	2.8	2.6	2.38	1.76	132	33	98	104	1.18	TI
FM/12-2.9	12	2.9	2.7	2.47	1.82	79	56	99	105	1.1	71
FM/12-3.2	12	3.2	2.98	2.72	2.01	134	67	60.5	66.5	1.35	TI
FM/12-4	12	4	3.72	3.4	2.51	195	47	70	76	1.6	II
FM/12-4.5	12	4.5	4.19	3.83	2.83	90	70	101	107	1.6	II
FM/12-5	12	5	4.65	4.25	3.14	151	53	93	99	1.74	T1/T2
FM/12-5.4	12	5.4	5	4.6	3.39	90	70	101	107	1.68	T1
FM/12-6	12	- 6	5.58	5.1	3.77	90	70	101	107	1.8	T1/T2
FM/12-6.5	12	6.5	6.05	5.53	4.08	151	65	94	99.5	1.95	T1/T2
FM/12-7	12	7	6.51	5.59	4.4	151	65	94	99.5	2.1	T1/T2
FM/12-7.2	12	7.2	6.7	6.12	4.52	151	65	94	99.5	2.15	T1/T2
FM/12-7.5	12	7.5	6.98	6.38	4.71	151	65	94	99.5	2.35	T1/T2
FM/12-8	12	8	7.8	6.63	4.9	151	65	94	99.5	2.38	T1/T2
FM/12-9	12	9	7.91	7.23	5.34	151	65	94	99.5	2.42	T1/T2
FM/12-12	12	12	11.6	10.2	7.54	151	98	95	101	3.6	T1/T2
FM/12-14	12	14	13.02	11.9	8.79	151	98	95	101	4.2	T1/T2
FM/12-15	12	15	13.95	12.75	9.42	181	77	167.5	167.5	4.56	Lead Terminal
FM/12-18	12	18	16.74	15.3	11.3	181	77	167.5	167.5	5.5	T3/T12
FM/12-20	12	20	18.6	17	12.56	181	77	167.5	167.5	5.78	Т3
FM/6-0.5	6	0.5	0.47	0.43	0.31	57	14	50	52	0.1	1
FM/6-1	6	1	0.93	0.85	0.63	97	24	51.5	57.5	0.25	T1
FM/6-1.2	6	1.2	1.12	1.02	0.75	97	24	51.5	57.5	0.29	T1
FM/6-2	6	2	1.86	1.7	1.26	43	37	76	76	0.34	1
FM/6-2.8	6	2.8	2.6	2.38	1.76	66	33	97	104	0.57	T1
FM/6-3.2	6	3.2	2.98	2.72	2.01	134	34	60	66	0.67	TI
FM/6-4	6	4	3.72	3.4	2.51	70	47	100	106	0.69	T1/T4
FM/6-4.5	6	4.5	4.19	3.83	2.83	70	47	100	106	0.81	T1
FM/6-5	6	5	4.65	4.25	3.14	169	35	70	74	0.98	T1
FM/6-5.4	6	5.4	5.02	4.59	3.39	70	47	100	106	0.84	TI
FM/6-6	6	6	5.58	5.1	3.77	70	47	100	106	0.93	T1
FM/6-7	6	7	6.51	5.95	4.4	151	34	94	100	1.1	T1/T2
FM/6-7.2	6	7.2	6.7	6.12	4.52	151	34	94	100	1.2	T1/T2

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FM/6-7.5	6	7.5	6.98	6.38	4.71	151	34	94	100	1.26	T1/T2
FM/6-7.8	6	7.8	7.25	6.63	4.9	151	34	94	100	1.28	T1/T2
FM/6-8.5	6	8.5	7.91	7.23	5.34	151	34	94	100	1.4	T1/T2
FM/6-10	6	10	9.3	8.5	6.28	151	51	94	100	1.57	T1/T2
FM/6-12	6	12	11.16	10.2	7.54	151	51	94	100	1.8	T1/T2
FM/6-13	6	13	12.09	11.05	9.16	108	70	140	140	2.24	T1/T2
FM/6-14	6	14	13.02	11.9	8.79	151	51	94	100	2.05	T1/T2
FM/6-20	6	20	18.6	17	12.56	157	83	125	125	3.21	Т3
FM/4-0.4	4	0.4	0.37	0.34	0.25	35	22	40	45	0.06	1
FM/4-0.7	4	0.7	0.65	0.6	0.44	35	22	64	69	0.1	1
FM/4-1.2	4	1.2	1.12	1.02	0.75	35	22	92	97	0.15	1
FM/4-3.5	4	3.5	3.26	2.98	2.2	90	34	59	65	0.45	Ť1
FM/4-4.5	4	4.5	4.19	3.83	2.83	52.5	48	94	100	0.6	T1/T2
FM/4-5	4	5	4.65	4.25	3.14	91	50	74	74	0.66	T1/T2
FM/4-8	4	8	7.44	6.8	5.02	961	50	101	101	0.97	T2
FM/4-10	4	10	9.3	8.5	6.28	101.5	50	94	100	1.14	T2
FM/4-20	4	20	18.96	17	12.56	149	43	154	160	2.2	T2/T3

GFM Series

Model	Norminal Voltage						Dimension(mm)				Terminal
	V	20HR (1.80V/Cell)	10HR (1.80V/Cell)	5HR (1.75V/Cell)	1 HR (1.60V/Cell)	Length	Width	Height	Total Height	kg	Туре
GFM/2100	2	105	100	85.5	60	170	72	205	212	6	Т6
GFM/2150	2	157.5	150	128.3	90	170	98	205	212	8.5	17
GFM/2200	2	210	200	171	120	170	110	328	350	12.7	T11
GFM/2300	2	315	300	256.5	180	170	150	328	350	19	T11
GFM/2400	2	420	400	342	240	210	175	330	350	25.7	T11
GFM/2500	2	525	500	427.5	300	240	175	330	350	28.5	T11
GFM/2600	2	630	600	513	360	300	175	330	350	32	T11
GFM/2700	2	735	700	598.5	420	300	175	330	350	38.1	T11
GFM/2800	2	840	800	684	480	410	175	330	350	45	T11
GFM/21000	2	1050	1000	855	600	475	175	330	350	57	T11
GFM/21200	2	1260	1200	1026	720	475	175	330	349	63.7	T11
GFM/21500	2	1575	1500	1282.5	900	403	354	339	349	90	711
GFM/21800	2	1890	1800	1539	1080	403	354	339	349	101	T11
GFM/21200	2	2100	2000	1714	1200	490	350	339	349	118	T11
GFM/22500	2	2625	2500	2137.5	1500	490	350	339	349	132	T11
GFM/23000	2	3150	3000	2565	1800	709	350	337	349	170	711

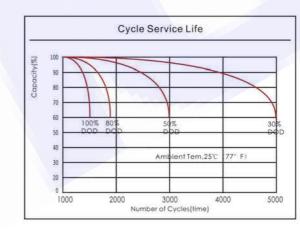
OPZS/OPZV Tubular Battery

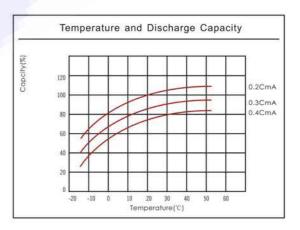
Model	Norminal Voltage	Rate Capacity		Dimensi	ion(mm)		Wei	ght
	٧	Ah	Length	Width	Height	Total Height	kg/dry	Poun
	*		OPZS	series				
2OPZ\$100	2	100	103	206	353	431	7.60	16.7
3OPZ\$150	2	150	103	206	353	409	9.80	21.6
4OPZ\$200	2	200	103	206	353	431	13.00	28.6
5OPZ\$250	2	250	124	206	353	431	15.00	33.0
6OPZ\$300	2	300	145	206	353	431	20.00	44.
5OPZ\$350	2	350	124	206	471	547	22.00	48.5
6OPZS420	2	420	145	206	471	547	26.50	58.4
7OPZS490	2	490	166	206	471	547	29.00	63.9
6OPZ\$600	2	600	145	206	646	722	34.00	74.9
8OPZS800	2	800	191	210	646	722	48.00	105.
10OPZS1000	2	1000	233	210	646	722	54.00	118.
12OPZS1200	2	1200	275	210	646	722	62.00	136.
12OPZ\$1500	2	1500	275	210	772	847	75.00	165.
16OPZS2000	2	2000	399	210	772	847	103.00	226.
20OPZ\$2500	2	2500	487	212	772	847	140.00	308.
24OPZ\$3000	2	3000	576	212	772	847	160.00	352.
Model	Norminal Voltage	Rate Capacity		Dimensi	ion(mm)		Wei	ght
	V.	Ah	Length	Width	Height	Total Height	kg/wet	Poun
	1		OPZV	Series				
40PZV200	2	200	103	206	355	399	18. 50	40.7
5OPZV250	2	250	124	206	355	399	23. 00	50.7
60PZV300	2	300	145	206	355	399	27. 00	59.5
5OPZV350	2	350	124	206	471	512	29.00	63.9
60PZV420	2	420	145	206	471	512	34.50	76.0
7OPZV490		At warmen	and the H	201		F10	39.50	87.0
	2	490	165	206	471	512	37.30	
60PZV600	2	600	165	206	647	688	48.00	105.
60PZV600 80PZV800	4		Market Mark		20000	-		
COLUMN TO THE REAL PROPERTY.	2	600	145	206	647	688	48.00	142.
80PZV800	2 2	600 800	145	206	647	688	48.00 64.50	105. 142. 176. 207.
80PZV800 100PZV1000	2 2 2	800 1000	145 191 233	206 210 210	647 647 647	688 688 688	48.00 64.50 80.00	142. 176. 207.
8OPZV800 10OPZV1000 12OPZV1200	2 2 2 2	800 1000 1200	145 191 233 275	206 210 210 210	647 647 647 647	688 688 688 688	48.00 64.50 80.00 94.00	142. 176. 207. 253.
8OPZV800 10OPZV1000 12OPZV1200 12OPZV1500	2 2 2 2 2	800 1000 1200 1500	145 191 233 275 275	206 210 210 210 210	647 647 647 647 797	688 688 688 688 838	48.00 64.50 80.00 94.00 115.00	142. 176. 207. 253. 343.
8OPZV800 10OPZV1000 12OPZV1200 12OPZV1500 16OPZV1750	2 2 2 2 2 2 2	600 800 1000 1200 1500 1750	145 191 233 275 275 397	206 210 210 210 210 210 212	647 647 647 647 797 772	688 688 688 688 838 813	48.00 64.50 80.00 94.00 115.00 156.00	142. 176. 207. 253. 343. 343.
8OPZV800 10OPZV1000 12OPZV1200 12OPZV1500 16OPZV1750 16OPZV2000	2 2 2 2 2 2 2 2	600 800 1000 1200 1500 1750 2000	145 191 233 275 275 397 397	206 210 210 210 210 210 212 212	647 647 647 647 797 772 772	688 688 688 688 838 813	48.00 64.50 80.00 94.00 115.00	142.

Electrical Vehicle Battery

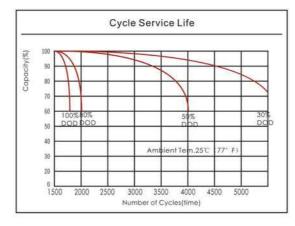
Model	Capacity	Volt	Din	Weigh		
	Ah/20hr		Length	Width	Height	Kg
6-DG-120	120	12	362	172	275	23
6-DG-140	140	12	362	172	275	26
6-DG-160	160	12	362	172	275	29.5
	Ah/2hr		Length	Width	Height	Kg
6-DZM-7	7	12	151	65	94	2.6
6-DZM-9	9	12	151	65	110	3.1
6-DZM-12	12	12	151	99	101	4.4
6-DZM-14	14	12	151	99	116	5.55
6-DZM-20	20	12	182	77	170	7.1
6-DZM-22	22	12	165	125	175	9.8

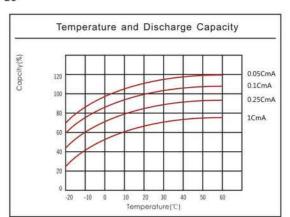
OPZS/OPZV Characteristics Curve



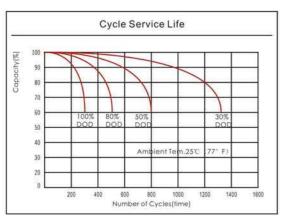


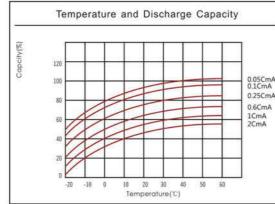
OPZS

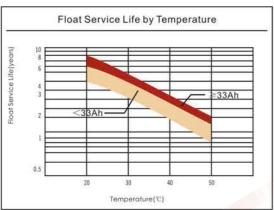


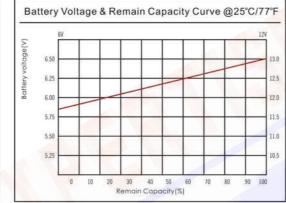


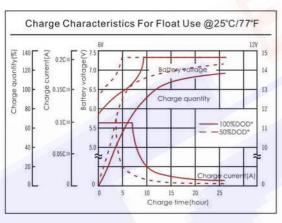
AGM Characteristics Curve

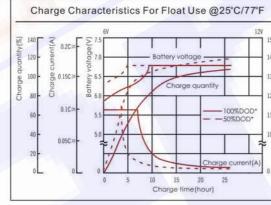


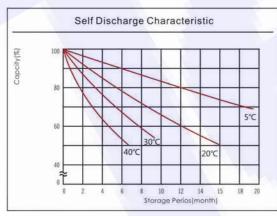


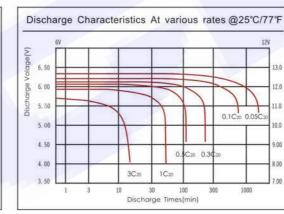




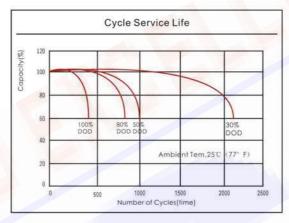


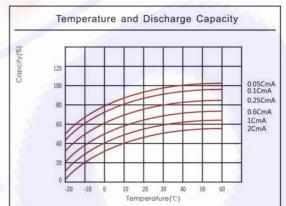


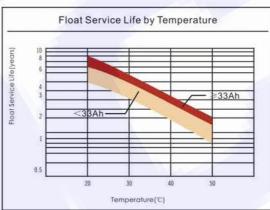


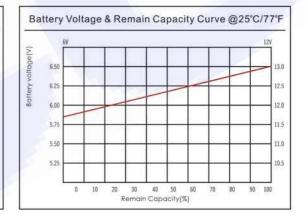


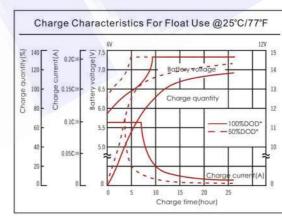
GEL Characteristics Curve

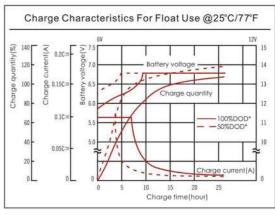


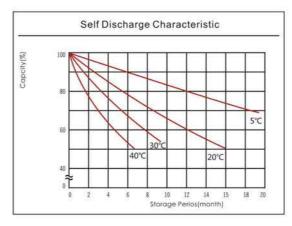


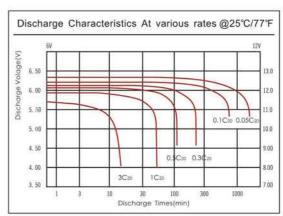












Production Line







1.Casting Plate

2.Powder

2.Pasting







4. Assembling

5. Filling

6. Charging







7.Packing

8.Logistics Center

9.Loading



Lab







Quality Control

Environmental Protection

Battery Photo-Deep Cycle







UPS Battery

AGM Battery

Solar Battery









Gel Battery

Rickshaw Battery

EV Battery







OPZS Battery



OPZV Battery



12V LIFEPO4 BATTERY PACK SERIES PRODUCT

FOR LEAD-ACID BATTERY REPLACEMENT



SPECIFICTION



Item	12V100Ah	12V150Ah	12V200Ah	12V315Ah		
Nominal Voltage	12.8V					
Nominal Capacity	100Ah	150Ah	200Ah	315Ah		
Energy	1280Wh	1920Wh 2560		4032Wh		
Charge Voltage	14.4V					
Discharge Cut-off voltage	10V					
Max. Charge Current	50A	100A (Lir	nited by BMS)			
Max. Discharge Current	100A	100A (Lin	mited by BMS)			
Dimension(mm)	L331xW174xH216mm	L485xW170xH241mm	L521xW238	3xH218mm		
Weight	11.5kg	18kg 24kg 32kg				
Working Temp. Range	Charge: 0°C45°C / Discharge: -20°C60°C					
Cycle life	2	000 cycles ≥80% initial ca	apacity			

ASSEMBLY PROCESS

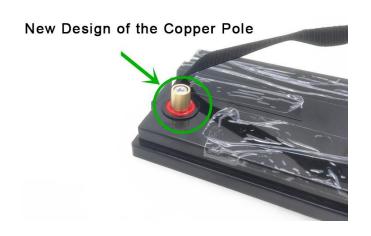




•High temperature resistance, high strength ABS material

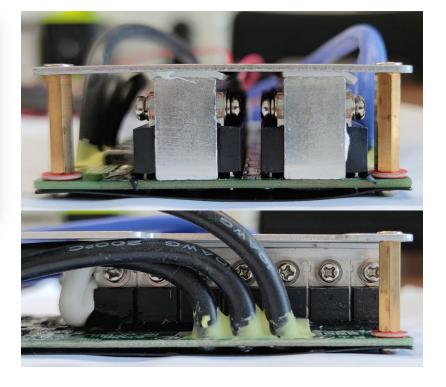


Nickel plated copper busbar



BMS: 100A Charge and Discharge Current

100A continuous current charge and discharge BMS



14 pairs of big current MOSFET. Large aluminum area for heat dissipation.

CAPACITY TEST(12V100AH)





After full charge and standing for 1 day, The voltage is 13.9V before discharge. Discharge current 25A.



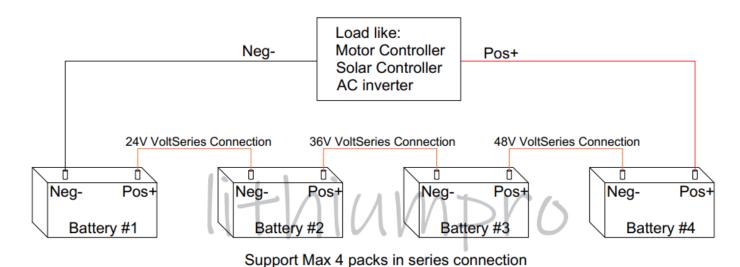
After two hours discharge, the voltage drop to 12.87V, the capacity is 54.29Ah.



The BMS cut-off the discharge at 9.59V. The capacity is 106.6Ah

CONNECTION





2 packs in series connection to 24V3 packs in series connection to 36V4 packs in series connection to 48V



APPLICATIONS





Solar Energy Storage

As a power bank to storage the energy from solar panel and supply the electric to the load.

Using for the electric boat, home use solar system.



Traction Power

As a power to drive the electric vehicle, electric boat and any other motor.

Using for electric scooter, tricycle and small electric vehicle. Good for the outboard motor of the small boat.

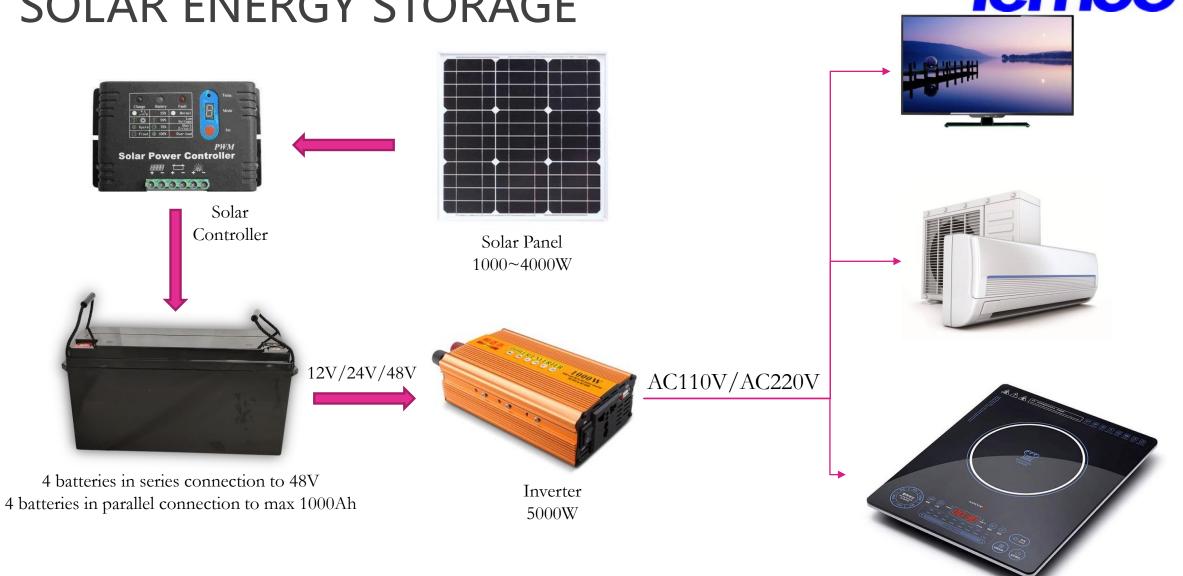


Portable Power

Outdoor power supply

Supply the electric to the load by DC-DC or DC-AC

SOLAR ENERGY STORAGE



TRACTION POWER









Electric Tricycle



Electric Carrier



Electric Boat



Outboard Motor



PORTABLE POWER







1. The 4 models battery pack we listed is the standard produce. If not meet your demand, We accept the battery pack custom-make.

Battery	custom-make it	em(not limited to below)			
Voltage	Capacity(Energy)	Discharge current(Power)	Dimension	Communication(CAN,485)	Brand, Label

- 2. The custom-make MOQ > 100 units.
- 3. Delivery time: 10 days for the standard battery(<5 unit). 35 days for the custom-make battery. According to the order quantity if bulk purchase.
- 4. Charge, inverter, solar panel, DC/DC if need, we can provide or give recommendation.