

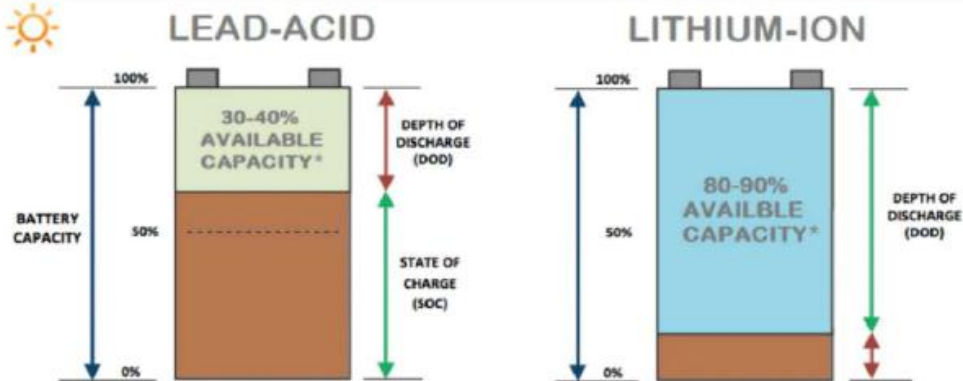
In recent years, lithium-ion batteries have become increasingly popular due to their superior performance compared to lead-acid batteries.

One of the main advantage of lithium-ion batteries is their higher energy density, which allows them to store more energy in the same amount of space.

Lithium-ion batteries also have a longer cycle life than lead-acid batteries. Their superior performance and longer lifespan make them an attractive option for a wide range of applications. As the demand for electric vehicles and renewable energy storage continues to grow, it is likely that the market share of lithium-ion phosphate batteries will continue to increase in the years to come.

### Features

- Longer life span
- Higher energy density
- High charge & discharge current
- Three to five years warranty
- Lower weight
- Environmentally friendly



## Lead-acid Battery Alternative



### Features

- Cells cycles times:  $\geq 3000$ .
- Long lifespan: 10+ years life design.
- Excellent standby self-consumption
- High density, small size and weight.
- With ABS case to replace lead acid battery.
- With intelligent BMS system to optimize the performance
- 12V/24V/48V LiFePO<sub>4</sub> pack, superior safety and reliability.
- Max discharge current depends on different modle compatible with Solar system with big storage power.

Model	Voltage	Rate Capacity	Watt Hour	Dimension(mm)			Weight $\pm 2\%$	Array mode
	V	Ah	Wh	L	W	H	(kg)	
12V7.5AH	12.8	7.5	96	151	65	94	1.2	4S1P
12V10AH	12.8	10	128	151	65	94	1.6	4S2P
12V12AH	12.8	12	154	151	65	94	2.5	4S2P
12V16AH	12.8	18	230	180.5	76	165	2.8	4S3P
12V24AH	12.8	24	307	174	125	165	3.5	4S4P
12V35AH	12.8	35	448	223	95	175	5.2	4S6P
12V55AH	12.8	55	704	223	150	178	7.5	4S9P
12V75AH	12.8	75	960	260	168	209	10.5	4S1P
12V100AH	12.8	100	1280	330	175	215	10.6	4S1P
12V200AH	12.8	200	2560	522	238	218	18	4S1P
24V100AH	25.6	100	2560	532	207	215	30	8S1P
24V150AH	25.6	150	3840	521	238	218	34	8S1P
24V200AH	25.6	200	5120	520	267	220	42	8S1P
48V100AH	51.2	100	5120	520	267	220	42	16S1P

SAITE

# EPS10000

EPS-10000 is an all in one household energy storage system, with 10KWh of LiFePO4 battery, 5.5-10KW pure sine wave inverter, capable of providing all the power you need to keep your most essential and critical electronics running.



## Features

- UPS
- Supports 15 parallel connections
- Fast charging
- convenient installation
- Easily moving
- APP monitoring
- On-Grid&Off-Grid

SAITE

## SUPPORT PARALLEL CONNECTION

Up to 15 can be used together in parallel



Item Description	EPS-10000-SN1	EPS-10000-SN2	EPS-10000-SN3		
Battery Module	1	2	3		
Battery Energy	5.12KWh	10.24KWh	15.36KWh		
Battery Capacity	100Ah	200Ah	300Ah		
Weight	70kg	120kg	170kg		
Dimension L x D x H(mm)	580x260x900	580x260x1320	580x260x1740		
Battery Type	LiFePO4				
Battery Rated Voltage	51.2V				
Battery Working Voltage Range	42-58.4V				
Maximum Charging Current	100A				
Maximum Discharging Current	100A				
DOD	≥95%				
Parallel Quantity	1-15				
Designed Life-span	6000				
	European Regulations			American Regulations	
	PV CHARGE				
Solar Charge Type	MPPT				
Maximum Output Power	5.5KW	6.2KW	8KW	5KW	10KW
PV Charging Current Range	80A	120A	80A	80A	200A
PV Operating Voltage Range	Max 500V DC				
MPPT Voltage Range	120-450V DC				
	AC CHARGE				
Maximum Output Power	5.5KW	6.2KW	8KW	5KW	10KW
PV Charging Current Range	≤40A	≤40A	≤60A	≤40A	≤80A
PV Operating Voltage Range	230V AC			120V AC	
MPPT Voltage Range	170-280V AC			90-140V AC	
	AC OUTPUT				
Model	5.5KW	6.2KW	8KW	5KW	10KW
Model	50Hz			60Hz	
	GENERAL DATA				
Communication	RS485/CAN/WIFI				
Operation Humidity	5%-85%				
Ingress Protection Rating	IP45				
Certification	UN38.3,MSDS,IEC,CE,RoHS				

SAITE

# EPS20000

EPS20000 is an all in one household energy storage system, with 20kWh of LiFePO4 battery, 5.5-10KW pure sine wave inverter, capable of providing all the power you need to keep your most essential and critical electronics running.



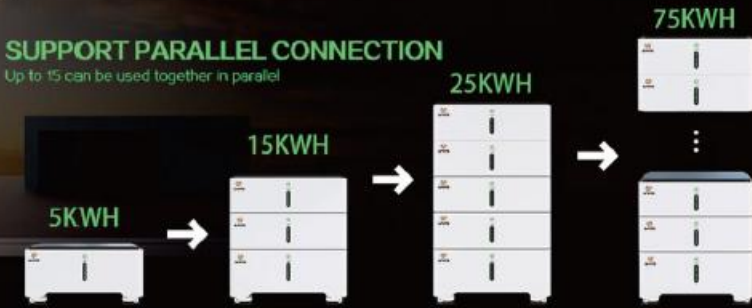
## Features

- UPS
- Supports 15 parallel connections
- Fast charging
- convenient installation
- Easily moving
- APP monitoring
- On-Grid&Off-Grid

SAITE

## SUPPORT PARALLEL CONNECTION

Up to 15 can be used together in parallel



Item Description	EPS-20000-3N2	EPS-20000-3N3	EPS-20000-3N4		
Battery Module	2	3	4		
Battery Energy	10.24KWh	15.36KWh	20.48KWh		
Battery Capacity	200Ah	300Ah	400Ah		
Weight	110kg	160kg	210kg		
Dimension L x D x H(mm)	600x300x660	600x300x700	600x300x1020		
Battery Type	LiFePO4				
Battery Rated Voltage	51.2V				
Battery Working Voltage Range	42-58.4V				
Maximum Charging Current	100A				
Maximum Discharging Current	100A				
DOD	≥95%				
Parallel Quantity	1-15				
Designed Life-span	6000				
	European Regulations		American Regulations		
	PV CHARGE				
Solar Charge Type	MPPT				
Maximum Output Power	5.5KW	6.2KW	8KW	5KW	10KW
PV Charging Current Range	80A	120A	80A	80A	200A
PV Operating Voltage Range	Max 500V DC				
MPPT Voltage Range	120-450V DC				
	AC CHARGE				
Maximum Output Power	5.5KW	6.2KW	8KW	5KW	10KW
PV Charging Current Range	≤40A	≤40A	≤60A	≤40A	≤80A
PV Operating Voltage Range	230V AC			120V AC	
MPPT Voltage Range	170-280V AC			90-140V AC	
	AC OUTPUT				
Model	5.5KW	6.2KW	8KW	5KW	10KW
Model	50Hz			60Hz	
	GENERAL DATA				
Communication	RS485/CAN/WIFI				
Operation Humidity	5%-85%				
Ingress Protection Rating	IP45				
Certification	UN38.3,MSDS,IEC,CE,RoHS				



# ESS5000M



## Features

- Safety/Reliable LFP chemistry
- Long service life
- Diverse model options and Expansion
- Intelligent BMS built-in
- Compact size for easy installation
- Many inverters compatible

Battery Pack Description Items	Specification	
Typical Capacity	102Ah	204Ah
Nominal Voltage	51.2V	51.2V
Discharging Voltage (Min)	42V	42V
Charging Voltage (Max)	58.40±0.05V	58.40±0.05V
Charging Current (Std)	50A	100A
Discharging Current (Std)	50A	100A
Max Charging Current	100A	200A
Discharging Current (Max/Peak 3s)	200A	400A
Max continuous Discharging Current	100A	200A
Battery Internal Impedance	≤80mΩ	≤60mΩ
Combination Method	16S1P	16S2P
Battery Dimension	580x486x176mm	482x732x226mm
Battery Weight	48kg	88kg
Communication	CAN/RS485	CAN/RS485
Battery Cycle life	≥6000 times	≥6000 times
Protection grade	IP55	IP55



# ESS5000W



## Features

- ESS-5000W is an household energy storage wall mounted battery
- With 5KWh of LiFePO4 battery
- Connect with the inverter can providing all the power you need
- To keep your most essential and critical electronics running

Battery Pack Description Items	Specification	
Typical Capacity	102Ah	202Ah
Nominal Voltage	51.2V	51.2V
Discharging Voltage (Min)	42V	42V
Charging Voltage (Max)	58.40±0.05V	58.40±0.05V
Charging Current (Std)	50A	100A
Discharging Current (Std)	50A	100A
Max Charging Current	100A	200A
Discharging Current (Max/Peak 3s)	200A	400A
Max continuous Discharging Current	100A	200A
Battery Internal Impedance	≤80mΩ	≤60mΩ
Combination Method	16S1P	16S2P
Battery Dimension	680x450x200mm	680x450x200mm
Battery Weight	48kg	88kg
Communication	CAN/RS485	CAN/RS485
Battery Cycle life	≥6000 times	≥6000 times
Protection grade	IP55	IP55

SATE

# ESS5000S



## Features

- Safety/Reliable LFP chemistry
- Long service life
- Diverse model options and Expansion
- Intelligent BMS built-in
- Compact size for easy installation
- Many inverters compatible



Battery Pack Description Items	Specification
Typical Capacity	102Ah
Nominal Voltage	51.2V
Discharging Voltage (Min)	42V
Charging Voltage (Max)	58.40±0.05V
Charging Current (Std)	50A
Discharging Current (Std)	50A
Max Charging Current	100A
Discharging Current (Max/Peak 3s)	200A
Max continuous Discharging Current	100A
Battery Internal Impedance	≤80mΩ
Combination Method	16S1P
Battery Dimension	605x485x200mm
Battery Weight for Each Module	48kg
Battery Cycle life	≥6000 times
Communication	CAN/RS485
Protection grade	IP55

## CASE DISPLAY



## General Purpose Battery AGM Series

General purpose AGM series batteries adopt advanced AGM valve regulated technology, high purity raw material and special alloys for grid. They have long service life both in floating service and cyclic service and are widely for back up purpose.



### Features

- **Capacity range:** 1.3~28Ah
- **Voltage:** 4V,6V,12V
- **Low self-discharge rate:** ≤3% per month
- **High oxygen recombination efficiency:** ≥98%
- **Lifetime:** 8 years design lifetime in standby application at 25°C
- **Wide operation temperature range:** 0°C~40°C

### Applications

DC power supply

Medical equipments

UPS/EPS power supply



Emergency lighting systems



Alarm and security systems

### Specifications

Model	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
			L	W	H	TH			
<b>4V/6V Series</b>									
BT-4M4.0AC	4	4.0	47.5	47.5	102	107	0.45	F01	Mode3
BT-4M4.5AC	4	4.5	47.5	47.5	102	107	0.49	F01	Mode3
BT-6M1.3AC	6	1.3	97	24	51	56	0.28	F00	Mode6
BT-6M2.8AC	6	2.8	86	34	98	103	0.56	F04	Mode4
BT-6M3.2AC	6	3.2	125	33	60	65	0.63	F00	Mode6
BT-6M4.0AC	6	4.0	70	47	100	105	0.72	F01/F02	Mode4
BT-6M4.5AC	6	4.5	70	47	100	105	0.74	F01/F02	Mode4
BT-6M5.0AT	6	5.0	170	35	70	76	0.83	F03	Mode6
BT-6M7.0AC	6	7.0	151	36	93	98	1.06	F01/F02	Mode6
BT-6M10AC	6	10	151	51	94	99	1.60	F01/F02	Mode6
BT-6M12AC	6	12	151	51	94	99	1.73	F01/F02	Mode6
<b>12V Series</b>									
BT-12M1.3AT	12	1.3	98	43	52	57	0.54	F00	Mode2
BT-12M2.2AT	12	2.2	179	36	61	66	0.92	F00	Mode6
BT-12M2.3AC	12	2.3	71	48	98	104	0.81	F04	Mode6
BT-12M2.9AC	12	2.9	80	56	99	104	1.06	F01	Mode3
BT-12M3.3AT	12	3.3	134	67	61	67	1.20	F00	Mode2
BT-12M3.6AC	12	3.6	134	67	61	67	1.30	F01	Mode2
BT-12M4.0AC	12	4.0	91	70	102	107	1.44	F01/F02	Mode6
BT-12M4.5AC	12	4.5	91	70	102	107	1.46	F01/F02	Mode6
BT-12M5.0AC	12	5.0	91	70	102	107	1.51	F01/F02	Mode6
BT-12M7.0AT	12	7.0	151	65	93.5	99.5	2.04	F01/F02	Mode1
BT-12M7.2AC	12	7.2	151	65	93.5	99.5	2.10	F01/F02	Mode1
BT-12M7.5AC	12	7.5	151	65	93.5	99.5	2.15	F01/F02	Mode1
BT-12M8.0AC	12	8.0	151	65	93.5	99.5	2.30	F01/F02	Mode1
BT-12M9.0AC	12	9.0	151	65	93.5	99.5	2.55	F01/F02	Mode1
BT-12M10AC	12	10	151	98	95	100	3.15	F01/F02	Mode1
BT-12M12AC	12	12	151	98	95	100	3.45	F01/F02	Mode1
BT-12M14AC	12	14	151	98	95	100	3.90	F01/F02	Mode1
BT-12M18AC	12	18	181	76	166	166	5.10	F13/F14/T03	Mode3
BT-12M20AC	12	20	181	76	166	166	5.60	F13/F14/T03	Mode3
BT-12M24AT(W)	12	24	166	175	125	125	7.40	F13/F15/T04	Mode3
BT-12M24AT(L)	12	24	166	126	174	174	7.45	F13/F14/T05	Mode3
BT-12M28AC(W)	12	28	166	175	125	125	8.00	F13/F15/T04	Mode3
BT-12M28AC(L)	12	28	166	126	174	174	8.00	F13/F14/T05	Mode3

## General Purpose Battery AGM Series

AGM Stationary 6V/12V/2V series batteries adopt advanced AGM valve regulated technology, high purity raw material and special alloys for grid. They have longer service life both in floating service and cyclic service than AGM small size batteries. They are widely used for back up purpose.



### Features

- **Capacity range:** 33~3000Ah
- **Voltage:** 6V,12V,2V
- **Low self-discharge rate:** ≤2% per month
- **High oxygen recombination efficiency:** ≥98%
- **Lifetime:** 12~15 years design lifetime in standby application at 25°C
- **Wide operation temperature range:** 0°C~40°C

### Applications

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Telecom stations and power stations

### Specifications

Model	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
			L	W	H	TH			
<b>6V Series</b>									
BT-HSE-36-6	6	36	162	89	163	175	5.55	F10	Mode5
BT-HSE-150-6	6	150	260	180	246	252	25.50	T24	Mode5
BT-HSE-160-6	6	160	299	172	227	231	25.70	T54	Mode4
BT-HSE-180-6	6	180	306	168	220	226	27.60	T18	Mode5
BT-HSE-200-6	6	200	322	178	225	231	30.00	T18	Mode4
BT-HSE-225-6	6	225	260	180	265	271	31.50	T24	Mode5
<b>12V Series</b>									
BT-12M33AC	12	33	196	130	154	170	10.00	T66	Mode6
BT-HSE-40-12	12	40	197	165	169	169	12.20	T68	Mode3
DT-110C-45-12	12	45	107	105	160	100	10.50	T00	Mode0
BT-HSE-50-12	12	50	230	140	207	211	15.00	T73	Mode6
BT-HSE-55-12	12	55	230	140	207	211	16.30	T73	Mode6
BT-HSE-65-12	12	65	350	167	173	173	19.70	T11	Mode3
BT-HSE-70-12	12	70	260	168	212	216	22.00	T49	Mode6
BT-HSE-80-12	12	80	333	173	216	223	25.50	T13	Mode6
BT-HSE-90-12	12	90	307	168	211	215	26.50	T25	Mode6
BT-HSE-100-12	12	100	333	173	216	223	30.00	T13	Mode6
BT-HSE-120-12	12	120	406	173	209	237	35.40	T22	Mode6
BT-HSE-135-12	12	135	341	172	281	287	42.40	T18	Mode6
BT-HSE-150-12	12	150	485	170	240	240	43.50	T23	Mode6
BT-HSE-160-12	12	160	534	206	215	219	50.00	T19	Mode2
BT-HSE-180-12	12	180	523	239	218	222	56.50	T41	Mode2
BT-HSE-200-12	12	200	523	239	218	222	59.50	T41	Mode2
BT-HSE-220-12	12	220	520	268	220	224	67.00	T24	Mode2
BT-HSE-250-12	12	250	520	268	220	224	73.00	T24	Mode2
BT-F T-50-12	12	50	291	106	223	231	15.3	T07	Mode2
BT-F T-55-12	12	55	291	106	223	231	16.2	T07	Mode2
BT-F T-70-12	12	70	562	115	187	196	22.0	T28	Mode2
BT-FT-75-12	12	75	562	115	187	196	23.5	T28	Mode2
BT FT-80-12	12	80	562	115	187	196	24.5	T28	Mode2
BT-FT-100-12(A)	12	100	410	110	287	295	30.5	T27	Mode2
BT-FT-100-12(B)	12	100	508	110	224	232	30.5	T22	Mode2
BT-FT-110-12	12	110	395	110	287	287	33.0	T46	Mode2
BT-FT-120-12	12	120	552	110	240	240	35.0	T28	Mode2
BT-FT-125-12	12	125	566	110	288	296	40.0	T17	Mode2
BT-FT-140-12	12	140	566	110	288	296	42.5	T17	Mode2
BT-FT-150-12(A)	12	150	566	110	288	296	44.0	T17	Mode2
BT-FT-150-12(B)	12	150	561	125	317	317	46.3	T28	Mode2
BT-FT-165-12	12	165	561	125	317	317	49.2	T28	Mode2
BT-FT-180-12(A)	12	180	561	125	317	317	54.7	T28	Mode2
BT-FT-180-12(B)	12	180	561	125	317	317	55.5	T28	Mode2
BT-FT-200-12	12	200	561	125	317	317	58.3	T28	Mode2
<b>2V Series</b>									
BT-MSE-100	2	100	171	72	205	214	5.80	T15	Mode4
BT-MSE-200	2	200	172	111	329	365	13.10	T38	Mode7
BT-MSE-300	2	300	171	151	334	365	18.80	T38	Mode7
BT-MSE-400	2	400	211	175	328	365	25.40	T38	Mode8
BT-MSE-500	2	500	242	174	329	365	30.90	T38	Mode8
BT-MSE-600	2	600	302	176	330	365	36.60	T38	Mode8
BT-MSE-800	2	800	410	176	330	365	49.00	T38	Mode9
BT-MSE-1000	2	1000	475	175	329	365	60.50	T38	Mode9
BT-MSE-1500	2	1500	401	351	342	383	93.00	T38	Mode10
BT-MSE-2000	2	2000	490	350	345	383	123.0	T38	Mode11
BT-MSE-3000	2	3000	710	353	343	382	188.0	T38	Mode11

## Deep Cycle Battery AGM Series

AGM deep cycle series batteries adopt advanced AGM valve regulated technology, high purity raw material, thick plate design, special grid alloy and paste formula, high-temperature curing technology and low acid density. They have excellent recovery performance from deep discharge and are widely used for frequent deep discharge cyclic applications.



### Features

- **Capacity range:** 4.0~28Ah
- **Low self-discharge rate:** ≤3% per month
- **High oxygen recombination efficiency:** ≥98%
- **Lifetime:** 8 years design lifetime in standby application at 25°C
- **Wide operation temperature range:** 0°C~40°C
- **High charging receptivity**
- **Deep discharging recovery ability**
- **Long cyclic lifetime in cyclic use**
- **Voltage:** 6V, 12V

### Applications



Electric tools/toys



Electric wheel chairs



Solar lighting systems



Solar/wind energy storage systems

### Specifications

Model	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
			L	W	H	TH			
<b>6V Series</b>									
BT-6M4.0AC	6	4.0	70	47	100	106	0.72	F01/F02	Mode4
BT-6M4.5AC	6	4.5	70	47	100	106	0.74	F01/F02	Mode4
BT-6M5.0AT	6	5.0	70	47	100	106	0.77	F01/F02	Mode4
BT-6M7.0AC	6	7.0	151	36	93	98	1.06	F01/F02	Mode6
BT-6M10AC	6	10	151	51	94	99	1.60	F01/F02	Mode6
BT-6M12AC	6	12	151	51	94	99	1.73	F01/F02	Mode6
<b>12V Series</b>									
BT-12M4.0AC	12	4.0	91	70	102	107	1.44	F01/F02	Mode6
BT-12M4.5AC	12	4.5	91	70	102	107	1.46	F01/F02	Mode6
BT-12M5.0AC	12	5.0	91	70	102	107	1.51	F01/F02	Mode6
BT-12M7.0AT	12	7.0	151	65	93.5	99.5	2.04	F01/F02	Mode1
BT-12M7.2AC	12	7.2	151	65	93.5	99.5	2.10	F01/F02	Mode1
BT-12M7.5AC	12	7.5	151	65	93.5	99.5	2.15	F01/F02	Mode1
BT-12M8.0AC	12	8.0	151	65	93.5	99.5	2.30	F01/F02	Mode1
BT-12M9.0AC	12	9.0	151	65	93.5	99.5	2.55	F01/F02	Mode1
BT-12M10AC	12	10	151	98	95	100	3.15	F01/F02	Mode1
BT-12M12AC	12	12	151	98	95	100	3.45	F01/F02	Mode1
BT-12M14AC	12	14	151	98	95	100	3.90	F01/F02	Mode1
BT-12M18AC	12	18	181	76	166	166	5.10	F13/F14/T03	Mode3
BT-12M20AC	12	20	181	76	166	166	5.60	F13/F14/T03	Mode3
BT-12M24AT(W)	12	24	166	175	125	125	7.40	F13/F15/T04	Mode3
BT-12M24AT(L)	12	24	166	126	174	174	7.45	F13/F14/T05	Mode3
BT-12M28AC(W)	12	28	166	175	125	125	8.00	F13/F15/T04	Mode3
BT-12M28AC(L)	12	28	166	126	174	174	8.00	F13/F14/T05	Mode3

## Deep Cycle Battery AGM Series

AGM deep cycle series batteries adopt advanced AGM valve regulated technology, high purity raw material, thick plate design, special grid alloy and paste formula, high-temperature curing technology and low acid density. They have excellent recovery performance from deep discharge and are widely used for frequent deep discharge cyclic applications.



### Features

- Capacity range:** 33~3000Ah
- Voltage:** 6V, 12V, 2V
- Low self-discharge rate:** ≤2% per month
- High oxygen recombination efficiency:** ≥98%
- Lifetime:** 12~15 years design lifetime in standby application at 25°C
- Wide operation temperature range:** 0°C~40°C
- High charging receptivity**
- Deep discharging recovery ability**
- Long cyclic lifetime in cyclic use**

### Applications

- Electric tools/toys
- Solar lighting systems
- Electric wheel chairs
- Solar/wind energy storage systems
- Golf trolleys and golf carts
- Telecom stations and power stations

### Specifications

Model	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
			L	W	H	TH			
<b>6V Series</b>									
BT-HSE-36-6	6	36	162	89	163	175	5.55	F10	Mode5
BT-HSE-150-6	6	150	260	180	246	252	25.50	T24	Mode5
BT-HSE-160-6	6	160	299	172	227	231	25.70	T54	Mode4
BT-HSE-180-6	6	180	306	168	220	226	27.60	T18	Mode5
BT-HSE-200-6	6	200	322	178	225	231	30.00	T18	Mode4
BT-HSE-225-6	6	225	260	180	265	271	31.50	T24	Mode5
<b>12V Series</b>									
BT-12M33AC	12	33	196	130	154	170	10.00	T66	Mode6
BT-HSE-40-12	12	40	197	165	169	169	12.20	T68	Mode3
DT-HIC-45-12	12	45	197	166	160	160	10.50	T60	Mode0
BT-HSE-50-12	12	50	230	140	207	211	15.00	T73	Mode6
BT-HSE-55-12	12	55	230	140	207	211	16.30	T73	Mode6
BT-HSE-65-12	12	65	350	167	173	173	19.70	T11	Mode3
BT-HSE-70-12	12	70	260	168	212	216	22.00	T49	Mode6
BT-HSE-80-12	12	80	333	173	216	223	25.50	T13	Mode6
BT-HSE-90-12	12	90	307	168	211	215	26.50	T25	Mode6
BT-HSE-100-12	12	100	333	173	216	223	30.00	T13	Mode6
BT-HSE-120-12	12	120	406	173	209	237	35.40	T22	Mode6
BT-HSE-135-12	12	135	341	172	281	287	42.40	T18	Mode6
BT-HSE-150-12	12	150	485	170	240	240	43.50	T23	Mode6
BT-HSE-160-12	12	160	534	206	215	219	50.00	T19	Mode2
BT-HSE-180-12	12	180	523	239	218	222	56.50	T41	Mode2
BT-HSE-200-12	12	200	523	239	218	222	59.50	T41	Mode2
BT-HSE-220-12	12	220	520	268	220	224	67.00	T24	Mode2
BT-HSE-250-12	12	250	520	268	220	224	73.00	T24	Mode2
BT-FT-50-12	12	50	291	106	223	231	15.3	T07	Mode2
BT-F T-55-12	12	55	291	106	223	231	16.2	T07	Mode2
BT-F T-70-12	12	70	562	115	187	196	22.0	T28	Mode2
BT-FT-75-12	12	75	562	115	187	196	23.5	T28	Mode2
BT FT 80 12	12	80	562	115	187	196	24.5	T28	Mode2
BT-FT-100-12(A)	12	100	410	110	287	295	30.5	T27	Mode2
BT-FT-100-12(B)	12	100	508	110	224	232	30.5	T22	Mode2
BT-FT-110-12	12	110	395	110	287	287	33.0	T46	Mode2
BT-FT-120-12	12	120	552	110	240	240	35.0	T28	Mode2
BT-FT-125-12	12	125	566	110	288	296	40.0	T17	Mode2
BT-FT-140-12	12	140	566	110	288	296	42.5	T17	Mode2
BT-FT-150-12(A)	12	150	566	110	288	296	44.0	T17	Mode2
BT-FT-150-12(B)	12	150	561	125	317	317	46.3	T28	Mode2
BT-FT-165-12	12	165	561	125	317	317	49.2	T28	Mode2
BT-FT-180-12(A)	12	180	561	125	317	317	54.7	T28	Mode2
BT-FT-180-12(B)	12	180	561	125	317	317	55.5	T28	Mode2
BT-FT-200-12	12	200	561	125	317	317	58.3	T28	Mode2
<b>2V Series</b>									
BT-MSE-100	2	100	171	72	205	214	5.80	T15	Mode4
BT-MSE-200	2	200	172	111	329	365	13.10	T38	Mode7
BT-MSE-300	2	300	171	151	334	365	18.80	T38	Mode7
BT-MSE-400	2	400	211	175	328	365	25.40	T38	Mode8
BT-MSE-500	2	500	242	174	329	365	30.90	T38	Mode8
BT-MSE-600	2	600	302	176	330	365	36.60	T38	Mode8
BT-MSE-800	2	800	410	176	330	365	49.00	T36	Mode9
BT-MSE-1000	2	1000	475	175	329	365	60.50	T38	Mode9
BT-MSE-1500	2	1500	401	351	342	383	93.00	T38	Mode10
BT-MSE-2000	2	2000	490	350	345	383	123.0	T36	Mode11
BT-MSE-3000	2	3000	710	353	343	382	188.0	T36	Mode11

## Deep Cycle Battery GEL Series

GEL deep cycle batteries adopt advanced GEL technology, high purity raw material, thick plate design, special grid alloy and paste formula, high-temperature curing technology and low acid density. They have excellent recovery ability from deep discharge. And the unique GEL electrolyte filling technique and excessive amount of gelatinized electrolyte ensure them having good performance at high and low temperature. They are widely used for frequent deep discharge cyclic applications under high or low temperature conditions.



### Features

- Capacity range:** 24~3000Ah
- Low self-discharge rate:** ≤2% per month
- High oxygen recombination efficiency:** ≥98%
- Lifetime:** 15~18 years design lifetime in standby application at 25°C
- Wide operation temperature range:** -20°C~+55°C
- High charging receptivity**
- Deep discharging recovery ability**
- Voltage:** 6V, 12V, 2V

### Applications

- Pumps systems
- Solar lighting systems
- Telecom stations and power stations
- Solar/wind energy storage systems

### Specifications

Model	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
			L	W	H	TH			
<b>6V Series</b>									
BT-HSE-36-6	6	36	162	89	163	175	5.57	F10	Mode5
BT-HSE-150-6	6	150	260	180	246	252	26.80	T24	Mode5
BT-HSE-160-6	6	160	299	172	227	231	26.20	T54	Mode4
BT-HSE-180-6	6	180	306	168	220	226	28.50	T18	Mode5
BT-HSE-200-6	6	200	322	178	225	231	30.30	T18	Mode4
BT-HSE-225-6	6	225	260	180	265	271	31.80	T24	Mode5
<b>12V Series</b>									
BT-12M24AT(W)	12	24	166	175	125	125	7.45	F13/F15/T04	Mode3
BT-12M24AT(L)	12	24	166	126	174	174	7.50	F13/F14/T05	Mode3
BT-12M31AC	12	31	196	130	154	170	8.90	T66	Mode6
BT-HSE-40-12	12	40	197	165	169	169	12.30	T66	Mode3
BT-HSE-50-12	12	50	230	140	207	211	15.20	T73	Mode6
BT-HSE-55-12	12	55	230	140	207	211	16.50	T73	Mode6
BT-HSE-65-12	12	65	350	167	173	173	20.00	T11	Mode3
BT-HSE-70-12	12	70	260	168	212	216	22.20	T49	Mode6
BT-HSE-80-12	12	80	333	173	216	223	25.80	T13	Mode6
BT-HSE-90-12	12	90	307	168	211	215	26.80	T25	Mode6
BT-HSE-100-12	12	100	333	173	216	223	30.30	T13	Mode6
BT-HSE-120-12	12	120	406	173	213	219	35.60	T22	Mode6
BT-HSE-135-12	12	135	341	172	281	287	43.30	T18	Mode6
BT-HSE-150-12	12	150	485	170	240	240	44.00	T23	Mode6
BT-HSE-160-12	12	160	534	206	215	219	50.50	T19	Mode2
BT-HSE-180-12	12	180	523	239	218	222	57.00	T41	Mode2
BT-HSE-200-12	12	200	523	239	218	222	60.00	T41	Mode2
BT-HSE-220-12	12	220	520	268	220	224	67.60	T24	Mode2
BT-HSE-250-12	12	250	520	268	220	224	73.70	T24	Mode2
BT-FT-50-12	12	50	291	106	223	231	15.5	T07	Mode2
BT-F T-55-12	12	55	291	106	223	231	16.4	T07	Mode2
BT-F T-70-12	12	70	562	115	187	196	22.2	T28	Mode2
BT-FT-75-12	12	75	562	115	187	196	24.0	T28	Mode2
BT-FT-80-12	12	80	562	115	187	196	24.7	T28	Mode2
BT-FT-100-12(A)	12	100	410	110	287	295	30.6	T27	Mode2
BT-FT-100-12(B)	12	100	508	110	224	232	30.6	T22	Mode2
BT-FT-110-12	12	110	395	110	287	287	33.3	T46	Mode2
BT-FT-120-12	12	120	552	110	240	240	35.2	T28	Mode2
BT-FT-125-12	12	125	566	110	288	296	40.4	T17	Mode2
BT-FT-140-12	12	140	566	110	288	296	42.9	T17	Mode2
BT-FT-150-12(A)	12	150	566	110	288	296	44.5	T17	Mode2
BT-FT-150-12(B)	12	150	561	125	317	317	46.8	T28	Mode2
BT-FT-165-12	12	165	561	125	317	317	49.7	T28	Mode2
BT-FT-180-12(A)	12	180	561	125	317	317	55.2	T28	Mode2
BT-FT-180-12(B)	12	180	561	125	317	317	56.2	T28	Mode2
BT-FT-200-12	12	200	561	125	317	317	58.9	T28	Mode2
<b>2V Series</b>									
BT-MSE-100	2	100	171	72	205	214	5.90	T15	Mode4
BT-MSE-200	2	200	172	111	329	365	13.20	T38	Mode7
BT-MSE-300	2	300	171	151	334	365	19.00	T38	Mode7
BT-MSE-400	2	400	211	175	328	365	25.70	T38	Mode8
BT-MSE-500	2	500	242	174	329	365	31.20	T38	Mode8
BT-MSE-600	2	600	302	176	330	365	37.00	T38	Mode8
BT-MSE-800	2	800	410	176	330	365	49.50	T38	Mode9
BT-MSE-1000	2	1000	475	175	329	365	61.00	T38	Mode9
BT-MSE-1500	2	1500	401	361	342	383	93.90	T38	Mode10
BT-MSE-2000	2	2000	490	350	345	383	124.0	T38	Mode11
BT-MSE-3000	2	3000	710	353	343	382	190.0	T38	Mode11

## High Rate Series

High rate series batteries adopt advanced AGM valve regulated technology, high purity raw material, thin plate design, special grid alloy and paste formula, high-temperature curing technology. They have excellent performance during high current discharge and are suitable for UPS/EPS where high rate discharging is required.



### Features

- **Capacity range:** 7~250AH
- **Low self-discharge rate:** ≤3% per month
- **High oxygen recombination efficiency:** ≥98%
- **Lifetime:** 5~8 years design lifetime in standby application at 25°C
- **Wide operation temperature range:** 0°C~40°C
- **Excellent performance at high rate & power discharging**
- **Voltage:** 12V

### Applications



Electric tools



Starting devices



UPS/EPS (high rate)



Electric wheel chairs



Emergency power supply



High power backup supply



### Specifications

Model	15 MIN rate	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
				L	W	H	TH			
BT-12M7.0AT	12V32W@15MIN	12	8	151	65	93.5	99.5	2.32	F02	Mode1
BT-12M7.0AT	12V40W@15MIN	12	9	151	65	93.5	99.5	2.55	F02	Mode1
BT-12M12AC	12V52W@15MIN	12	14	151	98	95	100	3.95	F02	Mode1
BT-12M12AC	12V58W@15MIN	12	15	151	98	95	100	4.14	F02	Mode1
BT-12M18AC	12V72W@15MIN	12	22	181	76	166	166	5.90	T03	Mode3
BT-12M24AT(W)	12V120W@15MIN	12	30	166	175	125	125	9.00	T04	Mode3
BT-12M24AT(L)	12V100W@15MIN	12	28	166	126	174	174	8.50	T05	Mode3
BT-12M31AC	12V125W@15MIN	12	31	196	130	154	170	10.0	T66	Mode6
BT-HSE-38-12	12V170W@15MIN	12	45	197	165	169	169	13.6	T68	Mode3
BT-HSE-55-12	12V200W@15MIN	12	60	230	140	207	211	18.0	T73	Mode6
BT-HSE-65-12	12V270W@15MIN	12	75	350	167	173	173	22.2	T11	Mode3
BT-HSE-70-12	12V330W@15MIN	12	90	260	168	212	216	25.0	T59	Mode6
BT-HSE-90-12	12V360W@15MIN	12	105	307	168	211	215	28.2	T60	Mode6
BT-HSE-100-12	12V410W@15MIN	12	115	333	173	216	223	31.5	T61	Mode6
BT-HSE-120-12	12V490W@15MIN	12	140	406	173	209	237	38.3	T63	Mode6
BT-HSE-150-12	12V550W@15MIN	12	170	485	170	240	240	44.5	T58	Mode6
BT-HSE-200-12	12V760W@15MIN	12	240	523	239	218	222	64.1	T64	Mode2
BT-HSE-250-12	12V800W@15MIN	12	270	520	268	220	224	73.5	T65	Mode2

## EV Battery

EV batteries are specially designed for frequent high current deep discharge. They adopt advanced lead-carbon plate technology, robust plate design, special grid alloy and high-temperature curing technology. They have excellent performance in high load situation with better charging receptivity and longer cyclic life time.

It is suitable for mobility scooters, electric wheel chairs, automatic scrubber and golf buggies, etc.



### Features

- **Capacity range:** 100~300Ah
- **Low self-discharge rate:** ≤3% per month
- **High oxygen recombination efficiency:** ≥98%
- **Wide operation temperature range:** -20°C~+50°C
- **High charging receptivity**
- **More than 300 cycles at 100% DOD**
- **Voltage:** 6V, 8V, 12V



### Applications



Electric tools



Electric wheel chairs



Golf trolleys and golf carts



Electric forklifts

### Specifications

Model	Voltage (V)	Capacity (AH)	Dimension(mm)				Weight (kg)	Terminal Type	Terminal Arrangement
			L	W	H	TH			
BT-HSE-100-12	12	100	333	173	216	223	32.0	T13	Mode6
BT-HSE-120-12	12	120	406	174	213	217	36.5	T22	Mode6
BT-HSE-150-12	12	150	485	170	240	240	46.0	T23	Mode6
BT-HSE-200-12	12	200	523	239	218	222	62.0	T41	Mode2
BT-HSE-160-8	8	160	260	182	267	271	32.6	T24	Mode6
BT-HSE-180-8	8	180	260	182	295	299	34.3	T55	Mode6
BT-HSE-150-6	6	150	260	180	246	252	26.8	T24	Mode5
BT-HSE-160-6	6	160	299	172	227	231	26.2	T54	Mode4
BT-HSE-180-6	6	180	306	168	220	226	27.4	T18	Mode5
BT-HSE-220-6	6	220	322	178	225	231	30.0	T18	Mode4
BT-HSE-225-6	6	225	260	180	265	271	31.8	T24	Mode5
BT-HSE-280-6	6	280	295	178	346	350	44.9	T31	Mode5
BT-HSE-300-6	6	300	295	178	346	350	47.7	T31	Mode5

SAITE



## Motorcycle battery

Motorcycle batteries adopt the advanced AGM valve regulated and tight assembly technology, corrosion-resistant grid alloy and high purity raw material.



### Features

- Low self-discharge
- Maintenance-free design
- High capacity ,Long life
- High CCA and good starting performance

Model	Voltage (V)	Rate Capacity (20HR)	CCA -18°C	Meter CCA 25±5°C	Dimension(mm)			Weights±2% (kg)	layout Type	Terminal	Terminal Arrangement
					L	W	H				
6N4-BS	6	4.0	N/A	N/A	85	72	93	0.78		/	Model 4
12N2.5-BS	12	2.5	N/A	N/A	80	77	104	1.11		/	Model 3
12N3-BS	12	3.0	N/A	N/A	99	56	109	1.30		Q51	Model 3
YTX4L-BS	12	4.0	48	80	113	69	89	1.38		Q55	Model 3
YTZ5-BS	12	4.0	48	80	112	70	85	1.38		Q59	Model 3
YTX5L-BS	12	5.5	66	110	113	69	107	1.75		Q55	Model 3
12N5B-BS	12	5.2	62	104	120	61	128	1.85		Q51	Model 3
YTX7B-BS	12	6.5	78	117	149	65	95	2.29		Q60	Model 3
YTX7L-BS	12	7.5	90	135	113	69	132	2.35		Q55	Model 6
12N7B-BS	12	7.0	84	126	149	60	128	2.30		Q54	Model 3
YTX7A-BS	12	7.0	84	126	150	85	93	2.37		Q56	Model 6
YTX9A-BS	12	9.0	108	162	150	85	107	2.88		Q56	Model 6
12N9A-BS	12	9.0	108	167	137	77	135	2.92		Q53	Model 6
YTX11A-BS	12	11.0	134	202	150	86	111	3.75		Q61	Model 6
YTX12A-BS	12	13.0	143	195	150	86	131	3.70		Q56	Model 6
YTX14A-BS	12	14.0	154	210	150	86	147	4.20		Q56	Model 6
12N14A-BS	12	14.0	165	210	134	88	165	4.75		F51	Model 6
12N16A-BS	12	14.0	126	200	150	86	164	4.99		Q58	Model 6
YTX17A-BS	12	18.0	162	225	177	87	154	5.35		Q58	Model 6
YTX30A-BS	12	30.0	280	400	166	127	175	9.75		Q58	Model 6

SAITE



## Start-Stop battery

Start-Stop batteries adopt the advanced AGM valve regulated and tight assembly technology, corrosion-resistant grid alloy, special paste formula and high purity raw material.



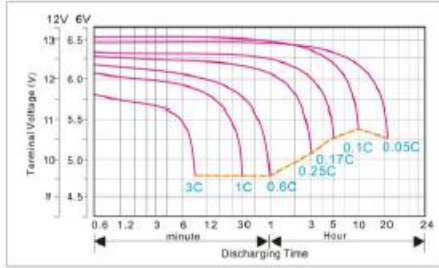
### Features

- Long life
- Low self-discharge
- Maintenance-free design
- High CCA and good starting performance

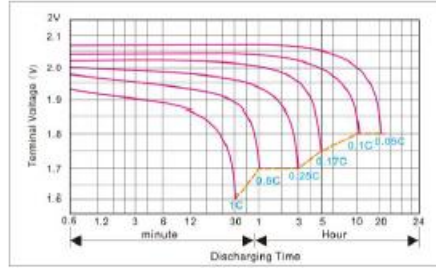
Model	Voltage (V)	Rate Capacity (20HR)	Reserve Capacity min	CCA -18°C	Dimension(mm)				Weight±2% (kg)	layout L / R	Terminal Type
					L	W	H	TH			
6-QTF-60	12	60	100	600	246	175	190	190	17.5	R	19.5/17.9
6-QTF-70	12	70	120	700	278	175	190	190	20.3	R	19.5/17.9
6-QTF-80	12	75	140	750	315	175	190	190	22.8	R	19.5/17.9
6-QTF-90	12	85	160	850	352	175	190	190	26.2	R	19.5/17.9
6-QTF-100	12	95	190	950	394	175	190	190	28.5	R	19.5/17.9

## Discharging

For 6V/12V Battery

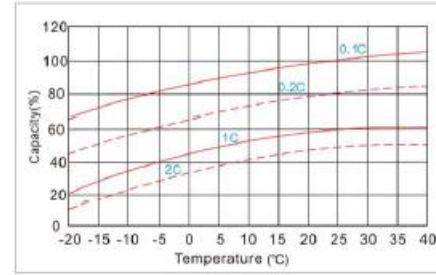


For 2V Battery

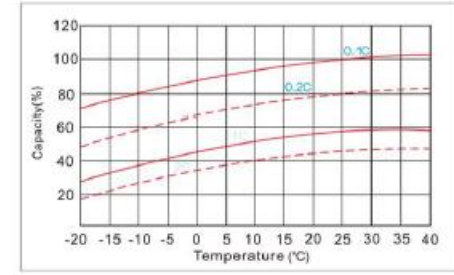


## The Relation Curve between Capacity and Temperature

For AGM Series Battery

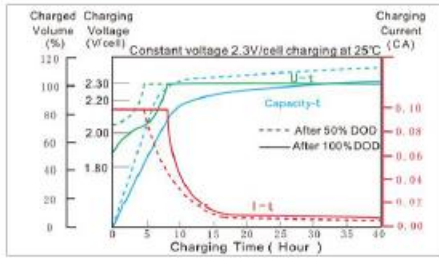


For GEL Series Battery

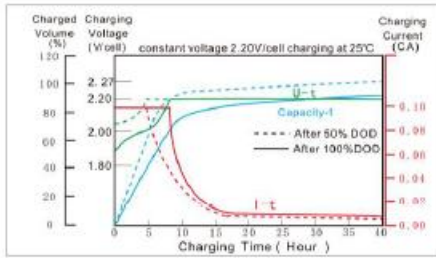


## Charging Curve

For 6V/8V/12V Battery

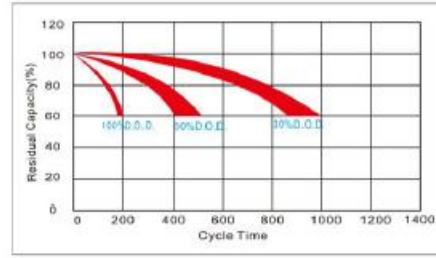


For 2V Battery

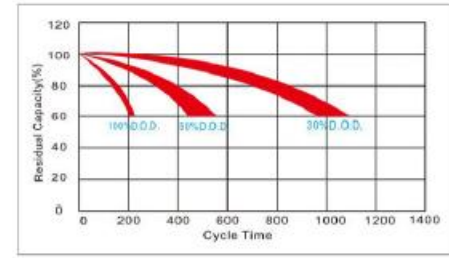


## Lifetime Curve

For AGM Series 6V/8V/12V Battery

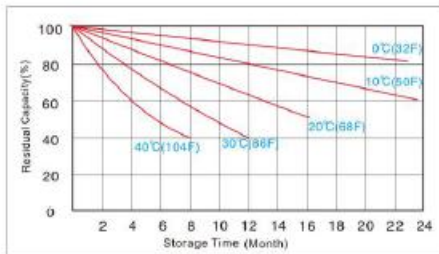


For AGM Series 2V Battery

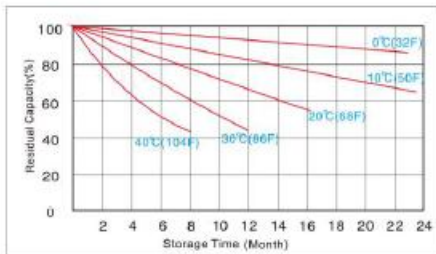


## Storage Characteristics

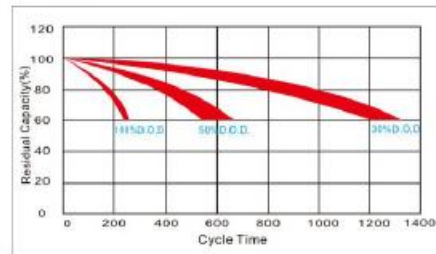
For AGM Series Battery



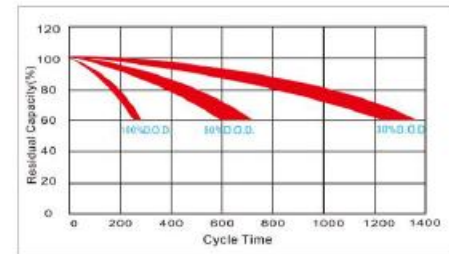
For GEL Series Battery



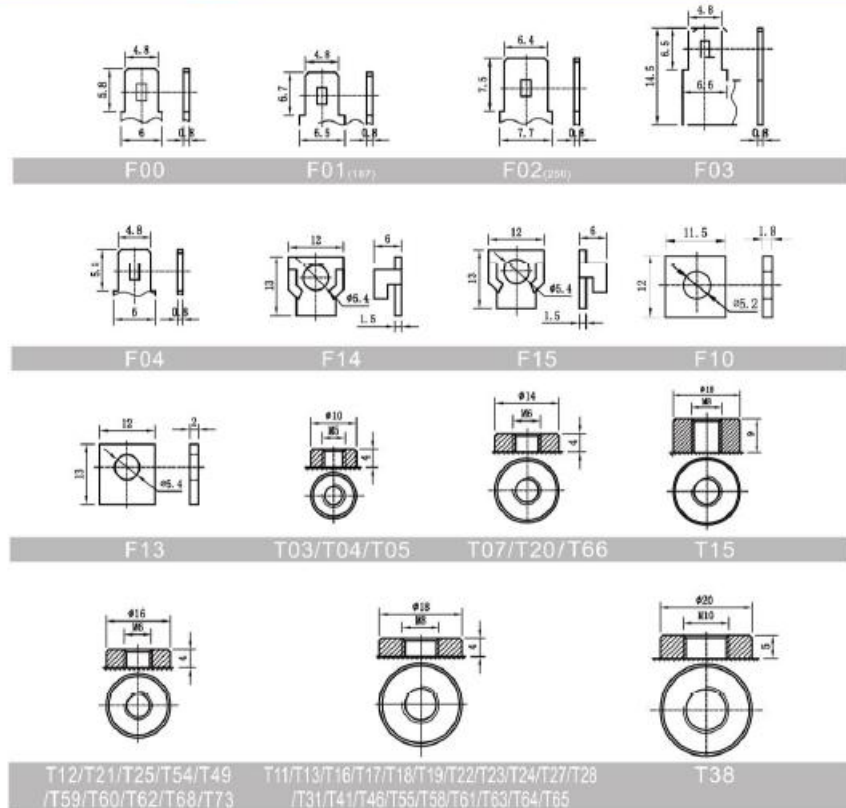
For GEL Series 6V/8V/12V Battery



For GEL Series 2V Battery

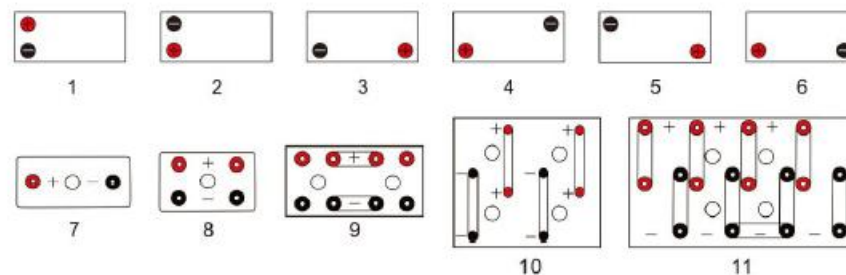


## Terminal Type



Note: M5: 4~5N.m; M6: 4.5~7N.m; M8/M10: 12~19N.m

## Terminal Arrangement



## Handling Instruction

### Storage and refresh charge

1. During storage, the capacity of battery decrease due to self-discharging. Store the battery in a cool, dry place. When monthly average temperature exceeds 25°C but below 30°C, carry out supplementary charging every 3 months. When the monthly average temperature falls below 25°C, carry out supplementary charging every 6 months.
2. When using a stored battery, always carry out supplementary charging before use.
3. Charge battery in a well-ventilated environment as the battery will generate flammable gas, which may cause explosion easily in contact with fire.
4. Charging parameters

#### • For Standby Use (At 25°C)

BATTERY	Model	Voltage	Initial charging current	Temperature Coefficient
AGM battery	12V/8V/6V/4Vseries/2V100AH	2.27~2.30V/Cell	0.25C	-3mv/°C
	2V Series	2.26~2.28V/Cell	0.20C	-3mv/°C
GEL battery	12V/6Vseries/2V100AH	2.27~2.30V/Cell	0.20C	-3mv/°C
	2V Series	2.26~2.28V/Cell	0.15C	-3mv/°C

#### • For Cycle Use (At 25°C)

BATTERY	Model	Voltage	Initial charging current	Temperature Coefficient
AGM battery	12V/8V/6V/4Vseries/2V100AH	2.35~2.40V/Cell	0.25C	-5mv/°C
	2V Series	2.30~2.35V/Cell	0.20C	-5mv/°C
GEL battery	12V/6Vseries/2V100AH	2.35~2.40V/Cell	0.20C	-5mv/°C
	2V Series	2.30~2.35V/Cell	0.15C	-5mv/°C

### Installation

1. Don't use a battery if it is cracked or acid-leakage.
2. Don't install a battery in upside-down position.
3. Do not install a battery in the place close to flame or excess heat.
4. Do not series connect more than 32 pieces batteries in a single string or parallel connect more than 4 strings.
5. Connect battery terminal and cable firmly.

### Transportation

1. When transporting the battery, never vibrate or impact it excessively.
2. Please always transport the battery in an upright position.

### Daily inspection and servicing

1. When the following abnormalities are observed, discover the cause and re place any defective batteries:
  - a. Any voltage abnormalities
  - b. Any physical defects (e.g., a cracked or deformed container)
  - c. Any electrolyte leakage
  - d. Any abnormal heat generation
2. Clean any dust contamination with a wet cloth. Never use organic solvents (e.g., gasoline or thinner). Otherwise the container or cover may develop cracks.