

BETTER ENERGY BETTER LIFE

ULTRA LONG LIFE • FAST CHARGE • SAFEST

Graphene Supercapacitor Battery Manufacturer and Energy Storage System Provider

BATTERY CELL

Breaking through energy storage technology, changing future energy landscape





Smart Energy Strategy



Safety



Fast Charge



Long Life



Extreme Temperature



Smart BMS



Contents

- 01 About Green Tech
- 02 R&D
- 03 Production and Quality Control
- 04 Products
- 05 After-Sales Service

WHO WE ARE?

Shanghai Green Tech Company is an advanced capacitors manufacturer and graphene super capacitor energy storage system innovator with over 20 years of experience in the design, development, and production of super capacitors. Since 1998, we provided super capacitors and graphene super capacitor energy storage system products and solutions to over 1000 customers around the world. It is the state-certified new and high-tech enterprise in the new energy storage industry.

Today, the world runs on critical infrastructure and technology i.e. planes, hospitals, factories, data centers, vehicles, the electrical grid, industrial, consumer electronics, telecommunications.

These are things people depend on every day and the companies behind them depend on us to help solve some of the toughest power & storage challenges globally. At Green Tech, we're dedicated to improve people's lives and the environment with power & Storage systems that are more reliable, efficient, safe and sustainable.

We offer significant competitive advantages including delivery and production capabilities optimized to suit each individual customer inventory requirements, and global engineering teams experienced in developing new-to-market product solutions especially designed to















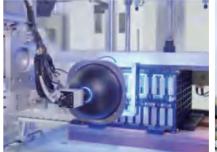
Development











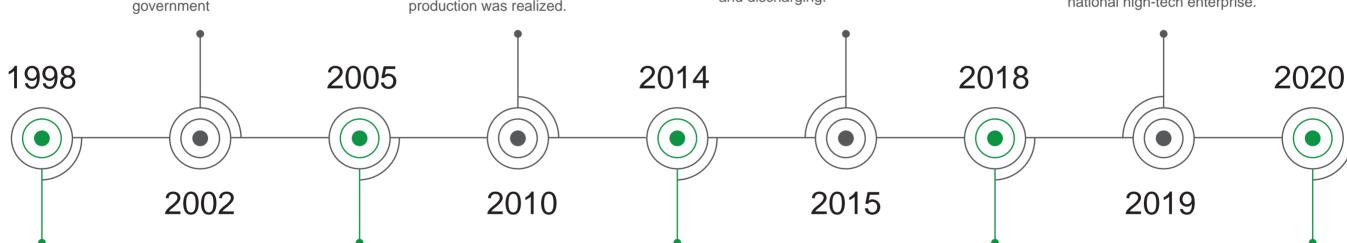




Large-capacity supercapacitors were successfully developed and mass production was realized.

The high energy density graphene supercapacitor battery was successfully developed, which has an ultra-long cycle life and can realize fast charging and discharging.

The company was rated as a national high-tech enterprise.



Factory Founded The first military capacitor production line founded

The first supercapacitor product was successfully developed and the cycle life reached 1 million times.

Supercapacitor products were successfully applied to fast-charging buses and wind turbine pitch control system

The new product will have an energy density of more than 100, which can completely replace the traditional battery.

Our products have passed the international battery safety standard test, which further proves that our products are very safe.





Global Market

Green Tech Energy works with partners globally to bring the right solutions to market, manufactured both locally and overseas allowing Green Tech Energy to service the ever growing global demand for battery storage.





Vertical Integration

Green Tech vertical integration strategy extends from core battery chemistry, including cathode and anode materials, electrolyte, and membrane separators, to application technologies including battery management systems(BMS)andother power electronics.

By integrating the process from raw material to system assembly, Green Tech is able to provide customized solutions with reduced project development time and controllable costs. Vertical integration also allows us to control product quality from top to bottom with our high standards.

- >> Material Technology Know-How
- >> Reduced Project Development Time

>> Efficient Quality Control

>> Cost Effective



Production Procedure







Green Tech R&D Target

Green Tech set its R&D target of "safer, lower cost, longer life and more enironmentally friendly".



Green Tech innovative hybrid technology offers exceptional long life, high depth of discharge, safety & energy efficiency. Our Intelligent Battery Management Software provides utmost safety and performance even in most harsh conditions.

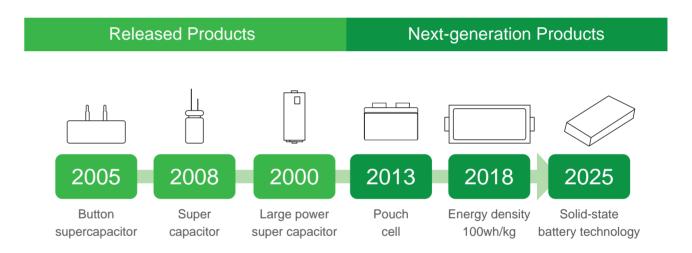
R&D target

- >> Reduce the levelized cost of energy under 0.02USD
- >> Longer life time up to 25years
- >> Higher round trip efficiency >98%
- >> Easier installation
- >> Remote controllable
- >> Smarter system management

R&D Product Roadmap



- >> 10-15 minute ultra-fast charging, long life and lower cost.
- >> Improving energy density



Technology strategy

- Insist on the "fast charging, long life, high safety" three leading technology
- Master four core technologies of battery materials (anode and cathode, diaphragm and electrolyte)
- Intelligent lean manufacturing technology
- 10-15 minute ultra-fast charging, long life and Uninflammable with improved energy density





R&D



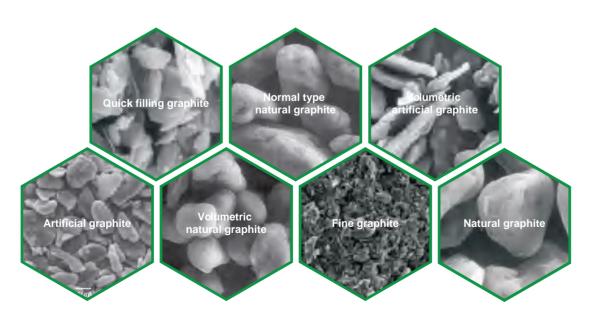




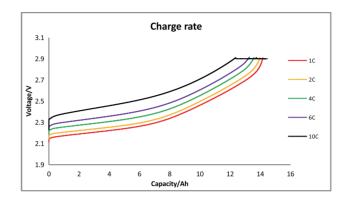
Green Tech has its material, cell and product R&D centers in Japan, U.S. and Germany.

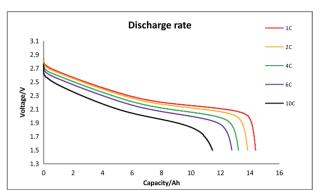
Green tech focuses on material and product development in its own R&D center, and ensures all the products pass the complete and qualified tests before outgoing. Meanwhile, Green tech also enhances the close cooperation with Japan, US and Germany scientific research institutions to lead this field ahead.

Cathode Material For Graphene Ultracapacitor Batteries

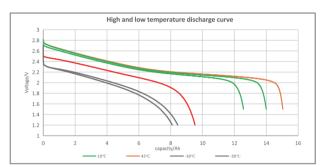


EG Series Test Result





Discharge temperature (° C)	Capacity (Ah)	Test C/capacity at 25 ° C(%)
-20	9.54	67.63%
25	14.10	100.00%
45	15.25	108.13%



Uninflammable Electrolyte



Uninflammable







10-15 minute fast charge

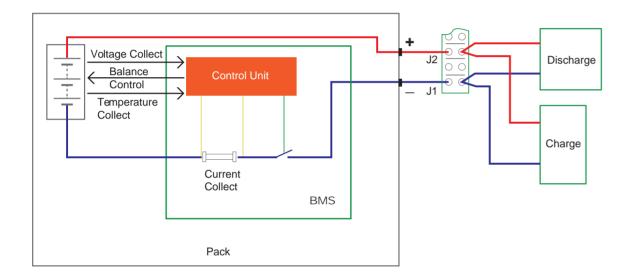
Long cycle life

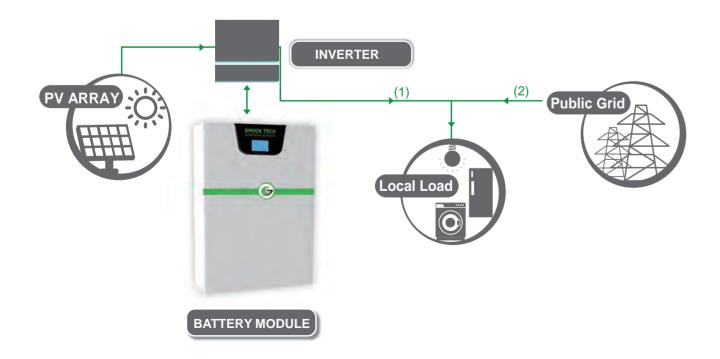
Green Tech electrolyte is not only Uninflammable, but also ensures fast charging within 10-15 minutes with a long cycle life.



Smart Manage System

- The interface of charge and discharge is integrated.
- The cell voltage and module temperature is detected by BMS.
- Support fast charging and discharging.
- Active monitoring of the system.
- Smart action when protection function activated.







Cell Performance

Products Series	EG Series	EM Series	EF Series
Cell Cycle Life (Projected)	Up to 50,000 times	Up to 20,000 times	Up to 10,000 times
Charge Temperature Range	-40°C ~ +65°C	0°C ~ +50°C	0°C ~ +50°C
Discharge Temperature Range	-40°C ~ +65°C	-20°C ~+60°C	-20°C ~ +55°C
Max. Rate of Charge	Up to 10C	Up to 3C	Up to 2C
Max. Rate of Discharge	Up to 6C	Up to 6C	Up to 2C
Cells Energy Density (Wh/kg)	Up to 92	Up to 220	Up to 160
Thermal Runaway	No Risk	No Risk	No Risk

Green Tech developped series cells with different performance, above listed some best parameters for reference. To avoid excessive design and save the cost, we will recommend suitable cells and design the system according to customers' requirement details.





PACK Production

- >> PACK production line includes automatic sortig, stacking, laser welding, AGV flexible assembly and other fully
- >> automated/semi-automatic equipment, which increase production efficiency and ensures the product quality.

Production and Quality Control

Cell Production

Automatic proportioning system, double-sided coating equipment, pole pieces of high-speed;

cutting equipment, automatic assembly line, in the junction measurement surface density, viscosity testing equipment are adopted during production process;

ABB robot, KUKA robot and spider hand, lead a significant reduction in the number of operators;

Intelligent MES management system can automatically generate manufacturing, quality control, equipment maintenance data and the battery product bar code retrospective management, timely feedback abnormalities and guide the production management;

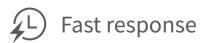
Production line strictly controls the humidity and cleanliness.

















Capwall series



PERFORMANCE SPECIFICATIONS			
Part Number	GTEM-48V5.5K-W	GTEM-48V10K-W	GTEM-48V15K-W
Energy Storage	5.5KWh	10KWh	15KWh
Nominal Voltage	48V/DC	48V/DC	48V/DC
Maximum Charge Voltage	58.8V/DC	58.8V/DC	58.8V/DC
Discharge Cut-off Voltage	39.2V/DC	39.2V/DC	39.2V/DC
ESR/AC @1KHz 50% SOC	<10mΩ	<8mΩ	<6mΩ
Max. Continuous Charge Current	100A	200A	100A
Max. Continuous Discharge Current	100A	200A	100A
Power/Energy	0.926	1.01	0.34
Round Trip Efficiency*1	96.3%	96.5%	97.2%
Charge Temperature		0°C ~ +55°C	
Discharge Temperature		-20°C ~+60°C	
Self-discharge Rate		2% per month	
Recommended Depth of Discharge		≤ 90%	
Maximum Depth of Discharge		100%	
Cooling Method		Natural cooling	
Mounting Options		Wall/floor	
Monitoring Data		voltage,current, temp C,SOH,cycle, cell's volt	
COMPLIANCE INFORMATION			
Certificate Options	EN 55032	19,IEC62040, EN 62133 :2015+AC:2016, EN 550 EN 61000-3-3:2013, R	035:2017,
CONVENTIONAL PARAMETERS			
Dimensions(WxDxH)	470x545x194(mm)	470x792x194(mm)	700x925x194(mm)
Weight	50Kg	65Kg	110Kg
Operating Humidity	0~90% RH Non-condensing		
Environmental Protection		IP20	















Capwall series

Operating Humidity

Environmental Protection



PERFORMANCE SPECIFICATIONS		
Part Number	GTEM-48V15K-W2	GTEM-400V14.4K-W
Energy Storage	15.2KWh	14.4KWh
Nominal Voltage	48V/DC	400V/DC
Maximum Charge Voltage	58.8V/DC	453V/DC
Discharge Cut-off Voltage	39.2V/DC	292V/DC
ESR/AC @1KHz 50% SOC	<30mΩ	<100mΩ
Max. Continuous Charge Current	200A	35A
Max. Continuous Discharge Current	200A	35A
Power/Energy	0.68	0.97
Round Trip Efficiency*1	96.8%	98.2%
Charge Temperature	0°C ~ +55°C	
Discharge Temperature	-20°C ~+60°C	
Self-discharge Rate	2% per month	
Recommended Depth of Discharge	≤ 90%	
Maximum Depth of Discharge	100%	
Cooling Method	Natural cooling	
Mounting Options	Wal	l/floor
Monitoring Data		urrent, temperature, le, cell's voltage
COMPLIANCE INFORMATION		
Certificate Options	EN 55032:2015+AC:	40, EN 62133:2013, 2016, EN 55035:2017, -3-3:2013, RoHS, UN38.3, MSDS
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	700x845x194(mm)	700x840x194(mm)
Weight	95Kg	115Kg

0~90% RH Non-condensing

IP20















Capess series



PERFORMANCE SPECIFICATIONS			
Part Number	GTEM-48V3600-E	GTEM-48V5500-E	GTEM-48V7400-E
Energy Storage	3.6KWh	5.59KWh	7.46KWh
Nominal Voltage	48V/DC	48V/DC	48V/DC
Maximum Charge Voltage	58.8V/DC	58.8V/DC	58.8V/DC
Discharge Cut-off Voltage	39.2V/DC	39.2V/DC	39.2V/DC
ESR/AC @1KHz 50% SOC	<15mΩ	<10mΩ	<8mΩ
Max. Continuous Charge Current	100A	100A	100A
Max. Continuous Discharge Current	100A	100A	100A
Power/Energy	1.38	0.926	0.67
Round Trip Efficiency*1	95%	97.8%	97.5%
Charge Temperature		-0°C ~+55°C	
Discharge Temperature		-20°C ~+60°C	
Self-discharge Rate		2% per month	
Recommended Depth of Discharge		≤ 90%	
Maximum Depth of Discharge		100%	
Cooling Method	Natural cooling		
Shell Material		Metal & ABS plastic	
Monitoring Data	System voltage,current,temperature, SOC,SOH,cycle,cell's voltage		
COMPLIANCE INFORMATION			
Certificate Options	EN 55032	19,IEC62040, EN 6213 :2015+AC:2016, EN 55 EN 61000-3-3:2013, F	5035:2017,
CONVENTIONAL PARAMETERS			
Dimensions(WxDxH)	475x465x177(mm)	471x465x177(mm)	471x565x177(mn
Weight	32Kg	42Kg	51kg
Operating Humidity	0~9	90% RH Non-condens	sing
Environmental Protection		IP20	







High energy density



Fast response



Capess series

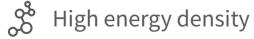


PERFORMANCE SPECIFICATIONS			
Part Number	GTEF-48V3000-E	GTEF-48V6000-E	GTEF-48V7600-E
Energy Storage	3.0KWh	6.0KWh	7.6KWh
Nominal Voltage	48V/DC	48V/DC	48V/DC
Maximum Charge Voltage	57.6V/DC	57.6V/DC	57.6V/DC
Discharge Cut-off Voltage	44.8V/DC	44.8V/DC	44.8V/DC
ESR/AC @1KHz 50% SOC	<15mΩ	<10mΩ	<8mΩ
Max. Continuous Charge Current	60A	100A	100A
Max. Continuous Discharge Current	100A	100A	100A
Peak Current(3s)	110A	110A	110A
Power/Energy	0.98	0.926	0.67
Charge Temperature		0°C ~+55°C	
Discharge Temperature		-10°C ~ +60°C	
Self-discharge Rate		2% per month	
Recommended Depth of Discharge		≤ 90%	
Maximum Depth of Discharge		100%	
Cooling Method		Natural cooling	
Shell Material		Metal & ABS plastic	
Monitoring Data		voltage,current, temp C,SOH,cycle, cell's vol	
COMPLIANCE INFORMATION			
Certificate Options	EN 55032	519,IEC62040, EN 6213 2:2015+AC:2016, EN 55 EN 61000-3-3:2013,	5035:2017,
CONVENTIONAL PARAMETERS			
Dimensions(WxDxH)	446x485x133(mm)	446x500x250(mm)	446x550x250(mr
Weight	28Kg	52Kg	62Kg
Operating Humidity	0~	90% RH Non-condens	sing
Environmental Protection		IP20	





L Long lifespan



Modular





Caprack series



PERFORMANCE SPECIFICATIONS	
Part Number	GTEM-400V14.4K-R
Energy Storage	14.4KWh
Nominal Capacity	36Ah±5%
Nominal Voltage	400Vd.c.
Maximum Charge Voltage	453.6Vd.c.
Discharge Cut-off Voltage	291.6V/d.c.
ESR/AC @1KHz 50% SOC	<200mΩ
Max. Continuous Charge Current	50A
Max. Continuous Discharge Current	50A
Real Power, max continuous	12kw
Max. Energy Density	72.9Wh/kg
Max. Power Density	120W/kg
Communication Protocol	CAN
Recommended Depth of Discharge	≤ 90%
Maximum Depth of Discharge	100%
Charge Temperature	0°C ~+55°C
Discharge Temperature*1	-20°C ~+60°C
Shell Material	Metal & ABS plastic
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle,cell's voltage

COMPLIANCE INFORMATION

| IEC62619:2017,IEC62040, EN 62133:2013, | EN 55032:2015+AC:2016, EN 55035:2017, | EN 61000-3-2:2014, EN 61000-3-3:2013, RoHS, UN38.3, MSDS

CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	520x732x653(mm)
Weight	165Kg±5Kg
Operating Humidity	0~90% RH Non-condensing
Environmental Protection	IP20 Indoor







3 High energy density







Caprack series

Environmental Protection



Part NumberGTEM-400V50K-REnergy Storage50.3KWhNominal Voltage400V/DCMaximum Charge Voltage453.6V/DCDischarge Cut-off Voltage302.4V/DCESR/AC @1KHz 50% SOC<100mΩMax. Continuous Charge Current120AMax. Continuous Discharge Current120AConfiguration108S6P
Nominal Voltage400V/DCMaximum Charge Voltage453.6V/DCDischarge Cut-off Voltage302.4V/DCESR/AC @1KHz 50% SOC<100mΩ
Maximum Charge Voltage453.6V/DCDischarge Cut-off Voltage302.4V/DCESR/AC @1KHz 50% SOC<100mΩ
Discharge Cut-off Voltage 302.4V/DC ESR/AC @1KHz 50% SOC <100mΩ
ESR/AC @1KHz 50% SOC <100 mΩ Max. Continuous Charge Current 120 A Max. Continuous Discharge Current 120 A
Max. Continuous Charge Current 120A Max. Continuous Discharge Current 120A
Max. Continuous Discharge Current 120A
Configuration 108S6P
20001
Round Trip Efficiency*1 98%
Self-discharge Rate 2% per month
Recommended Depth of Discharge ≤ 90%
Maximum Depth of Discharge 100%
Charge Temperature 0°C ~+55°C
Discharge Temperature -20°C ~+60°C
Cooling Method Natural cooling
Shell Material Metal & ABS plastic
Parallel connection optional Up to 4sets (400V 200KWh)
Monitoring Data System voltage, current, temperature, SOC, SOH, cycle, cell's voltage
COMPLIANCE INFORMATION
IEC62619:2017,IEC62040, EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013, RoHS, UN38 MSDS
CONVENTIONAL PARAMETERS
Dimensions(WxDxH) 560x732x1308(mm)
Weight 385Kg
Operating Humidity 0~90% RH Non-condensing

IP20

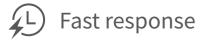




L Long lifespan

3 High energy density

Modular



ह्यें Perfect compatibility

EG series



PERFORMANCE SPECIFICATIONS	
Part Number	GTEG-700V28K-R
Energy Storage	28KWh
Nominal Capacity	40Ah
Nominal Voltage	700V/DC
Maximum Charge Voltage	856.8V/DC
Discharge Cut-off Voltage	550.8V/DC
ESR/AC @1KHz 50% SOC	<100mΩ
Max. Continuous Charge Current	200A
Max. Continuous Discharge Current	200A
Discharge rate	5C
Max. Continuous Output Power	140KW
Charge Temperature*1	-20°C ~+60°C
Discharge Temperature*2	-40°C ~+60°C
Self-discharge Rate	2% per month
Maximum Depth of Discharge	100%
Cooling Method	Natural cooling
Environmental Protection	Indoor
Terminal	Large power energy storage terminals
Parallel Connection	Up to 4sets (3 subsystem,max. Power 420KW)
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle,cell's voltage
COMPLIANCE INFORMATION	
Contificate Ontions	IEC62619:2017,IEC62040, EN 62133:2013,

	IEC62619:2017,IEC62040, EN 62133:2013,
Certificate Options	EN 55032:2015+AC:2016, EN 55035:2017,
·	EN 61000-3-2:2014, EN 61000-3-3:2013, RoHS, UN38.3, MSDS

CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	520x732x1904(mm)
Weight	580Kg
Operating Humidity	0~90% RH Non-condensing
Environmental Protection	IP65



Safest & Reliable

Long lifespan

(*) Fast rechargeable

Low self-discharge

Fast response



EG series



PERFORMANCE SPECIFICATIONS		
Part Number	GTEG-24V4180-F	
Energy Storage	4.18KWh	
Nominal Capacity	182Ah	±5% @25℃
Nominal Voltage	24V	
Absolute Maximum Voltage	28V	
Cut-off Voltage (discharging)	18V	
Configuration	10S13P	
Pack resistance	< 10 mΩ	@ 1KHz AC,50% SOC
Continuous Charge Current	150A	
Continuous Discharge Current	150A	
Peak Discharge Current	300A	10s
Recommended Depth of Discharge	90%	
Maximum Depth of Discharge	100%	
Operating Temperature Discharge	-30°C ~+55°C	
Operating Temperature Charge	-30°C ~+55°C	
Storage Humidity	25% ~ 95%RH	
Operating Humidity	0 – 90% RH	
Storage Temperature	-20°C ~40 °C	SOC>30%,one full charge needed per two months
Cooling Method	Natural cooling	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013, UN38.3	
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	650*195*600(mm)	
Weight	225Kg (Counterweight according to customer requirements)	
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP55	



Safest & Reliable

Long lifespan

- (*) Fast rechargeable
- Low self-discharge

Fast response



EM series



PERFORMANCE SPECIFICATIONS		
Part Number	GTEM-48V21K-F	GTEM-48V32K-F
Energy Storage	21KWh	32KWh
Rated Voltage	48V/DC	48V/DC
Maximum Charge Voltage	58.8V/DC	58V/DC
Discharge Cut-off Voltage	37.8V/DC	40V/DC
ESR/AC @1KHz 50% SOC	<50mΩ	<50mΩ
Max. Continuous Charge Current	420A	300A
Max. Continuous Discharge Current	420A	300A
Cut-off Current (charging)	4A	4A
Peak Discharge Current (3s)	800A	500A
Charge Temperature	0°C ~+55°C	
Discharge Temperature	-20°C ~+60°C	
Self-discharge Rate	3% per month	
Maximum Depth of Discharge	100%	
Cooling Method	Natural cooling	
Monitoring Data	Module voltage,SOC	
Indicator light display	Capacity %	
Environmental Protection	Customized	
Series-Parallel Connection	Not allowed	
Storage Conditions	-20°C ~+40°C / 5% ~ 95%RH SOC>30%,one full charge needed per two months	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013, UN38.3	
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	840x480x546(mm)	965x670x700(mm)
Weight	240Kg	960Kg
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP65	

EM series **Applications** • Forklifts Golf carts **Electric Rickshaws** Electric Motorcycle ÷ AGV

Safest & Reliable

(*) Fast rechargeable

- Fast response

- Long lifespan
- Low self-discharge
- Low maintenance





PERFORMANCE SPECIFICATIONS		
Part Number	GTEM-24V5000-F	GTEM-72V15.5K-F
Energy Storage	5.0KWh	15.5KWh
Rated Voltage	24V/DC	72V/DC
Maximum Charge Voltage	29V/DC	84V/DC
Discharge Cut-off Voltage	20V/DC	56V/DC
ESR/AC @1KHz 50% SOC	<10mΩ	<50mΩ
Max. Continuous Charge Current	250A	150A
Max. Continuous Discharge Current	250A	150A
Peak Discharge Current (10s)	300A	300A
Charge Temperature	0°C ~+55°C	
Discharge Temperature	-20°C ~+60°C	
Self-discharge Rate	3% per month	
Recommended Depth of Discharge	≤ 90%	
Maximum Depth of Discharge	100%	
Cooling Method	Natural cooling	
Monitoring Data	System voltage,current,temperature,SOC,cell's voltage	
Parallel Connection	Not Allowed	
Series-Parallel Connection	Not allowed	
Indicator light display	Capacity %	
Storage Conditions	-20°C ~+40°C 25% ~ 95%RH SOC>30%,one full charge needed per two months	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013, UN38.3	
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	645x565x245(mm)	740x540x320(mm)
Weight	190Kg	240Kg
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP65	



Safest & Reliable

Long lifespan

(*) Fast rechargeable

Low self-discharge

Fast response



EM series



Part Number	GTEM-48V3600-G	GTEM-48V4500-G
Energy Storage	3.6KWh	4.53KWh
Rated Voltage	48V/DC	48V/DC
Maximum Charge Voltage	58.8V/DC	58.8V/DC
Discharge Cut-off Voltage	39.2V/DC	39.2V/DC
ESR/AC @1KHz 50% SOC	<20mΩ	<30mΩ
Max. Continuous Charge Current	200A	200A
Max. Continuous Discharge Current	200A	200A
Cut-off Current (charging)	4A	4A
Absolute Peak Current 3s	300A	400A
Charge Temperature	0°C ~+55°C	
Discharge Temperature	-20°C ~+60°C	
Self-discharge Rate	2% per month	
Recommended Depth of Discharge	≤ 90%	
Maximum Depth of Discharge	100%	
Cooling Method	Natural cooling	
Storage Conditions	-20°C ~+40°C 25% ~ 95%RH SOC>30%,one full charge needed per two months	
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle,cell's voltage	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013, UN38.3	
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	720x355x252(mm)	793x355x252(mm)
Weight	55Kg	55Kg
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP65	



Safest & Reliable

Long lifespan

Fast rechargeable

Low self-discharge

Fast response



EM series



PERFORMANCE SPECIFICATIONS		
Part Number	GTEM-48V6500-G	GTEM-48V8500-G
Energy Storage	6.5KWh	8.5KWh
Nominal Capacity	130Ah	171Ah
Rated Voltage	48V/DC	48V/DC
Maximum Charge Voltage	58.8V/DC	58.8V/DC
Discharge Cut-off Voltage	39.2V/DC	39.2V/DC
ESR/AC @1KHz 50% SOC	<15mΩ	<15mΩ
Max. Continuous Charge Current	200A	200A
Max. Continuous Discharge Current	200A	200A
Absolute Peak Current 3s	300A	300A
Charge Temperature	0°C ~+55°C	
Discharge Temperature	-20°C ~+60°C	
Self-discharge Rate	2% per month	
Recommended Depth of Discharge	≤ 90%	
Maximum Depth of Discharge	100%	
Indicator light display	Capacity %	
Cooling Method	Natural cooling	
Storage Conditions	-20°C ~+40°C 25% ~ 95%RH SOC>30%,one full charge needed per two months	
Monitoring Data	System voltage, current, temperature, SOC, SOH, cycle, cell's voltage	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013, UN38.3	
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	950x400x252(mm)	1124x400x256(mm)
Weight	75Kg	82Kg
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP65	





Long lifespan

(*) Fast rechargeable

Low self-discharge

Fast response







Part Number	GTEM-48V1800-M	GTEM-48V3300-M
Energy Storage	1800Wh	3300Wh
Rated Voltage	48V/DC	48V/DC
Maximum Charge Voltage	58.8V/DC	58.8V/DC
Discharge Cut-off Voltage	39.2V/DC	39.2V/DC
ESR/AC @1KHz 50% SOC	<12mΩ	<10mΩ
Max. Continuous Charge Current	30A	50A
Max. Continuous Discharge Current	80A	80A
Absolute Peak Current 3s	100A	100A
Charge Temperature	0°C ~+55°C	
Discharge Temperature	-20°C ~+60°C	
Self-discharge Rate	3% per month	
Recommended Depth of Discharge	≤ 90%	
Maximum Depth of Discharge	100%	
Indicator light display	Capacity %	
Cooling Method	Natural cooling	
Storage Conditions	-20°C ~+40°C 25% ~ 95%RH SOC>30%,one full charge needed per two months	
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle,cell's voltage	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013, UN38.3	
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	230x180x300(mm)	230x180x430(mm)
Weight	15.5Kg	24Kg
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP66	





9 DoD up to 100%

- (*) Fast rechargeable
- Low self-discharge

Fast response



EF series



Part Number	GTEF-80V47K-F	GTEF-80V80K-F
Energy Storage	47.5KWh	79.8KWh
System Nominal Capacity	600Ah	1008Ah
Rated Voltage	80V/DC	80V/DC
Maximum Charge Voltage	90V/DC	90V/DC
Discharge Cut-off Voltage	70V/DC	70V/DC
ESR/AC @1KHz 50% SOC	<50mΩ	<50mΩ
Max. Continuous Charge Current	150A	150A
Max. Continuous Discharge Current	300A	300A
Peak Discharge Current (10s)	500A	500A
Output Terminal	REMA	REMA
Charge Temperature	0°C ~+55°C	
Discharge Temperature	-20°C ~+55°C	
Self-discharge Rate	3% per month	
Recommended Depth of Discharge	5%~90%	
Maximum Depth of Discharge	100%	
Cooling Method	Natural cooling	
Storage Conditions	-20°C ~+40°C 25% ~ 95%RH SOC>30%,one full charge needed per two months	
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle,cell's voltage	
COMPLIANCE INFORMATION		
Certificate Options	EN 62133:2013, EN 55032:201 61000-3-2:2014, EN 6	5+AC:2016, EN 55035:2017, E 1000-3-3:2013, UN38.3
CONVENTIONAL PARAMETERS		
Dimensions(WxDxH)	1025x710x784(mm)	1140x985x600
Weight	1280Kg	1580Kg
Operating Humidity	0~90% RH Non-condensing	
Environmental Protection	IP54	

GLOBAL PROJECTS





















After-sales Service

- >> With rich management experience, efficient after-sales service management organization;
- >> Experienced, responsive and conscientious service team;
- >> Improve the effective service management system;
- >> The spare parts warehouse in the factory center as the core, the secondary spare parts warehouse in the regional service station and the tertiary spare parts warehouse in the customer concentration area as the auxiliary spare parts guarantee;
- >> The GPRS remote terminal platform is established to conduct remote monitoring and fault prediction of battery operation data.

















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