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



GREEN TECH



www.greenteche.com



Smart Energy Strategy



Safety



Fast Charge



Long Life



Extreme Temperature



Smart BMS



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Green Tech

tion and Quality Control

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ales 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.

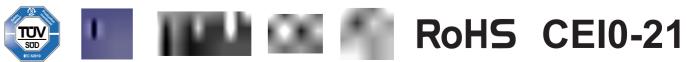
Today, the world runs on critical infrastructure and technology i.e. planes, hospitals, factories, data centers, vehicles, the electrical grid, industrial, consumer electronics, telecommunications.

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 fulfill customer's unique application requirements.

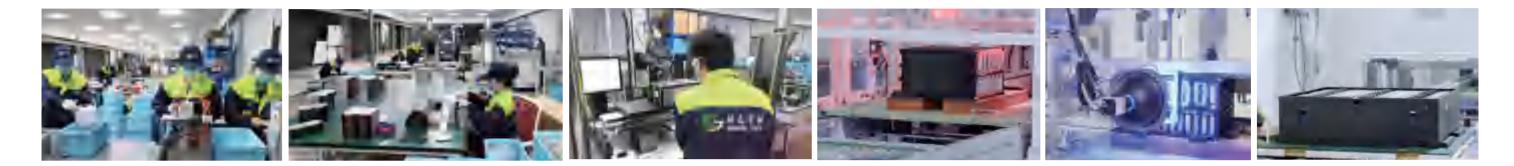




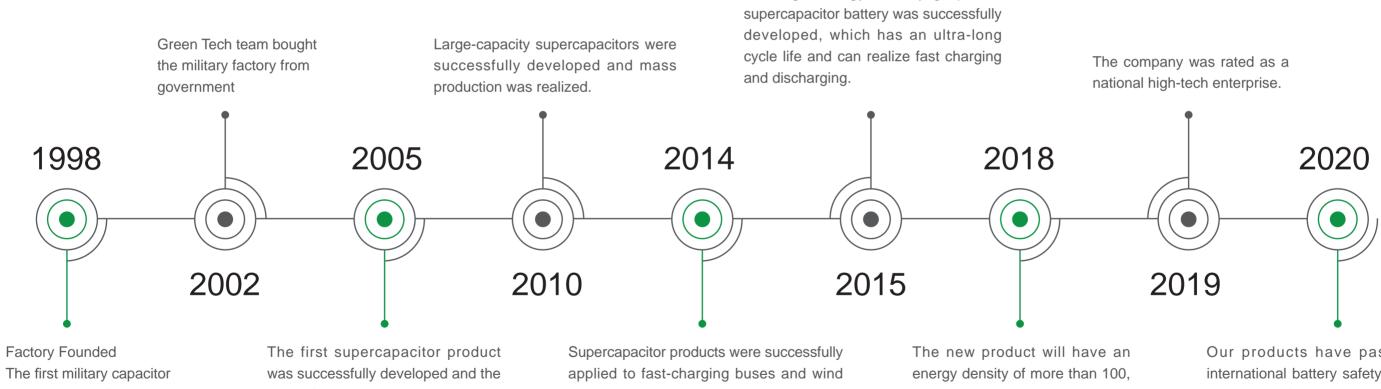




Development



The high energy density graphene



The first military capacitor production line founded

cycle life reached 1 million times.

turbine pitch control system

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







Green Tech R&D Target

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

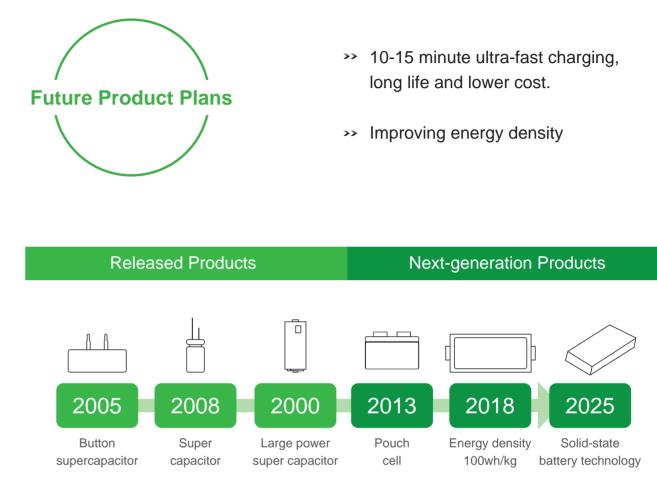


Green Tech innovative hybrid technology offers exceptional long life, high depth of discharge, safety & energy efficiency. Our Intelligent Battery Management Software provides utmost safety and performance even in most harsh conditions.

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





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





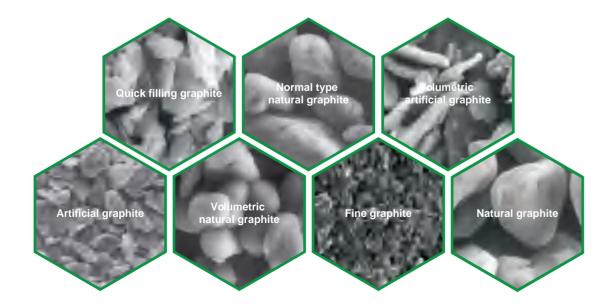
R&D



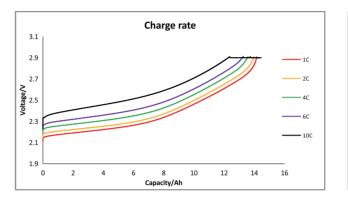
Green Tech has its material, cell and product R&D centers in Japan, U.S. and Germany.

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%

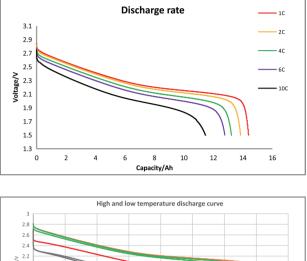
Uninflammable Electrolyte



Uninflammable

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





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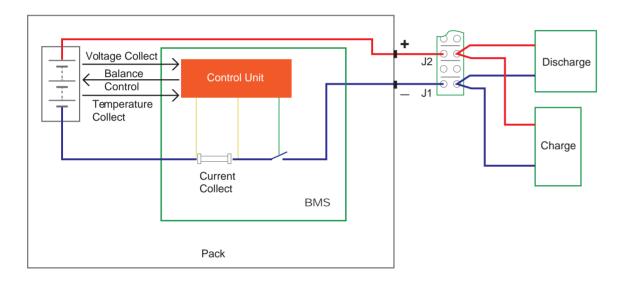


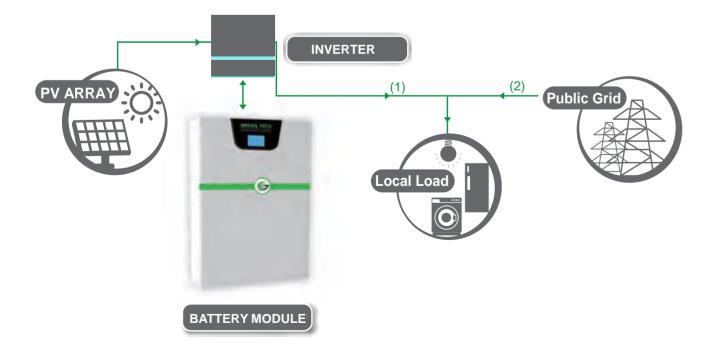
Long cycle life



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.





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.

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.





Capwall series

Applications

- Residential solar ESS
- Back up power supply
- Grid peak-valley balance
- wind energy storage system
- UPS
- Electric power systems
- Home appliances









Long lifespan (L



Capitalization

GREEN TECH

G





Capwall series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEM-48V5
Energy Storage	5.5KW
Nominal Voltage	48V/D
Maximum Charge Voltage	58.8V/D
Discharge Cut-off Voltage	39.2V/D
ESR/AC @1KHz 50% SOC	<10m0
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Power/Energy	0.926
Round Trip Efficiency*1	96.3%
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Cooling Method	
Mounting Options	
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	E EN 61000-3
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	470x545x19
Weight	50Kg
Operating Humidity	
Environmental Protection	



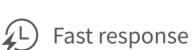
5K-W	GTEM-48V10K-W	GTEM-48V15K-W
ı	10KWh	15KWh
	48V/DC	48V/DC
С	58.8V/DC	58.8V/DC
С	39.2V/DC	39.2V/DC
2	<8mΩ	<6mΩ
	200A	100A
	200A	100A
	1.01	0.34
	96.5%	97.2%
	0°C ~ +55°C	
	-20°C ~+60°C	
	2% per month	
	≤ 90%	
	100%	
	Natural cooling	
	Wall/floor	
	voltage,current, temp C,SOH,cycle, cell's volt	
N 55032	19,IEC62040, EN 6213 :2015+AC:2016, EN 55 EN 61000-3-3:2013, R	035:2017,
l(mm)	470x792x194(mm)	700x925x194(mm)
	65Kg	110Kg
0~9	90% RH Non-condensi	ing
	IP20	

Capwall series

Applications

- Residential solar ESS
- Back up power supply
- Grid peak-valley balance
- wind energy storage system
- UPS
- Electric power systems
- Home appliances







Long lifespan L



Capitalization

G



Smart Home

Capwall series

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	Wall/floor	
Monitoring Data	System voltage,current, temperature, SOC,SOH,cycle, cell′s voltage	
COMPLIANCE INFORMATION		
Certificate Options	EN 55032:2015+AC:2	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
Operating Humidity	0~90% RH No	n-condensing
Environmental Protection	IP	20



Capess series

Applications

- + Household back-up power supply
- Miro-grid energy storage
- Solar power ESS
- Telecom tower station power supply
- . UPS / Commercial / Industrial
- Wind energy storage system
- Data center back-up power



Safest & Reliable



S High energy density





CEN TECH

Modular





Capess series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEM-48V
Energy Storage	3.6KV
Nominal Voltage	48V/D
Maximum Charge Voltage	58.8V/
Discharge Cut-off Voltage	39.2V/
ESR/AC @1KHz 50% SOC	<15m
Max. Continuous Charge Current	1004
Max. Continuous Discharge Current	1004
Power/Energy	1.38
Round Trip Efficiency ^{*1}	95%
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Cooling Method	
Shell Material	
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	EN 61000-3
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	475x465x1
Weight	32K
Operating Humidity	
Environmental Protection	



3600-E	GTEM-48V5500-E	GTEM-48V7400-E
'n	5.59KWh	7.46KWh
С	48V/DC	48V/DC
C	58.8V/DC	58.8V/DC
C	39.2V/DC	39.2V/DC
Ω	<10mΩ	<8mΩ
L.	100A	100A
L	100A	100A
	0.926	0.67
	97.8%	97.5%
	-0°C ~+55°C	
	-20°C ~+60°C	
	2% per month	
	≤ 90%	
	100%	
	Natural cooling	
	Metal & ABS plastic	
	voltage,current,temp ,SOH,cycle,cell′s volt	
N 55032:	19,IEC62040, EN 6213 2015+AC:2016, EN 55 EN 61000-3-3:2013, F	035:2017,
7(mm)	471x465x177(mm)	471x565x177(mm)
	42Kg	51kg
0~9	0% RH Non-condens	ing
	IP20	

Capess series

Applications

- Household back-up power supply
- Miro-grid energy storage
- Solar power ESS
- Telecom tower station power supply
- UPS / Commercial / Industrial
- Wind energy storage
- Data center back-up power supply



Safest & Reliable \bigcirc



High energy density





Modular





Capitalization

Capess series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEF-48V3
Energy Storage	3.0KW
Nominal Voltage	48V/D
Maximum Charge Voltage	57.6V/I
Discharge Cut-off Voltage	44.8V/I
ESR/AC @1KHz 50% SOC	<15m
Max. Continuous Charge Current	60A
Max. Continuous Discharge Current	100A
Peak Current(3s)	110A
Power/Energy	0.98
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Cooling Method	
Shell Material	
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	EN 61000-3
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	446x485x13
Weight	28Kg
Operating Humidity	
Environmental Protection	



)00-E	GTEF-48V6000-E	GTEF-48V7600-E
ı	6.0KWh	7.6KWh
	48V/DC	48V/DC
С	57.6V/DC	57.6V/DC
С	44.8V/DC	44.8V/DC
1	<10mΩ	<8mΩ
	100A	100A
	100A	100A
	110A	110A
	0.926	0.67
	0°C ~+55°C	
	-10°C ~ +60°C	
	2% per month	
	≤ 90%	
	100%	
	Natural cooling	
	Metal & ABS plastic	
	oltage,current, tem SOH,cycle, cell's vo	
N 55032:2	9,IEC62040, EN 6213 2015+AC:2016, EN 53 EN 61000-3-3:2013,	
B(mm)	446x500x250(mm)	446x550x250(mm)
	52Kg	62Kg
0~9	0% RH Non-conden	sing
	IP20	

Caprack series

Applications

- Household back-up power supply
- Miro-grid energy storage
- Solar power ESS
- Peak Shaving
- UPS / Commercial / Industrial
- Back-up power supply



Safest & Reliable



High energy density



) Fast response



] Modular



Perfect compatibility

Caprack series

PERFORMANCE SPECIFICATIONS

Part Number	
Energy Storage	
Nominal Capacity	
Nominal Voltage	
Maximum Charge Voltage	
Discharge Cut-off Voltage	
ESR/AC @1KHz 50% SOC	
Max. Continuous Charge Current	
Max. Continuous Discharge Current	
Real Power, max continuous	
Max. Energy Density	
Max. Power Density	
Communication Protocol	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Charge Temperature	
Discharge Temperature*1	
Shell Material	
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	
·	EN 61000-
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	
Weight	
Operating Humidity	
Environmental Protection	



GTEM-400V14.4K-R 14.4KWh 36Ah±5% 400Vd.c. 453.6Vd.c. 291.6V/d.c. 291.6V/d.c. <200mΩ 50A 50A 50A 12kw 72.9Wh/kg 120W/kg CAN ≤90%

100%

0°C ~+55°C

-20°C ~+60°C

Metal & ABS plastic

System voltage, current, temperature, SOC, SOH, cycle, cell's voltage

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

520x732x653(mm)

165Kg±5Kg

0~90% RH Non-condensing

IP20 Indoor

Caprack series

Applications

- Household back-up power supply
- Miro-grid energy storage
- Solar power ESS
- Peak Shaving
- UPS / Commercial / Industrial
- Grid voltage stabilization
- Back-up power

Safest & Reliable



High energy density



Fast response



} Modular



] Perfect compatibility

Caprack series

PERFORMANCE SPECIFICATIONS Part Number **Energy Storage** Nominal Voltage Maximum Charge Voltage Discharge Cut-off Voltage ESR/AC @1KHz 50% SOC Max. Continuous Charge Current Max. Continuous Discharge Current Configuration Round Trip Efficiency*1 Self-discharge Rate Recommended Depth of Discharge Maximum Depth of Discharge Charge Temperature Discharge Temperature **Cooling Method** Shell Material Parallel connection optional Monitoring Data **COMPLIANCE INFORMATION** Certificate Options

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)
Weight
Operating Humidity
Environmental Protection



GTEM-400V50K-R

50.3KWh

400V/DC

453.6V/DC

302.4V/DC

<100mΩ

120A

120A

108S6P

98%

2% per month

 \leqslant 90%

100%

0°C ~+55°C

-20°C ~+60°C

Natural cooling

Metal & ABS plastic

Up to 4sets (400V 200KWh)

System voltage, current, temperature, SOC, SOH, cycle, cell's voltage

560x732x1308(mm)

385Kg

0~90% RH Non-condensing

EG series

Applications

- Peak loading shaving
- Grid frequency stabilization ÷
- Grid voltage stabilization ÷
- ÷ Heave crane machinery
- ÷ Industry power compensation
- Charging station power supplier



Safest & Reliable



High energy density



Fast response



Modular



Perfect compatibility

EG series

PERFORMANCE SPECIFICATIONS

Part Number	
Energy Storage	
Nominal Capacity	
Nominal Voltage	
Maximum Charge Voltage	
Discharge Cut-off Voltage	
ESR/AC @1KHz 50% SOC	
Max. Continuous Charge Current	
Max. Continuous Discharge Current	
Discharge rate	
Max. Continuous Output Power	
Charge Temperature*1	
Discharge Temperature* ²	
Self-discharge Rate	
Maximum Depth of Discharge	
Cooling Method	
Environmental Protection	
Terminal	
Parallel Connection	Up
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	ا ====================================
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	
Weight	
Operating Humidity	
Environmental Protection	



GTEG-700V28K-R

28KWh

40Ah

700V/DC

856.8V/DC

550.8V/DC

<100mΩ

200A

200A

5C

140KW

-20°C ~+60°C

-40°C ~+60°C

2% per month

100%

Natural cooling

Indoor

Large power energy storage terminals

to 4sets (3 subsystem, max. Power 420KW)

System voltage, current, temperature, SOC, SOH, cycle, cell's voltage

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

520x732x1904(mm)

580Kg

0~90% RH Non-condensing

EG series

Applications

- Refrigeration house forklift
 Golf carts
 Electric Rickshaws
 Electric ATV
- Forklifts
- . ♦ AGV

Safest & Reliable	
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Fast rechargeable



L Long lifespan





Low maintenance

EG series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEG
Energy Storage	4.
Nominal Capacity	
Nominal Voltage	
Absolute Maximum Voltage	
Cut-off Voltage (discharging)	
Configuration	1
Pack resistance	<
Continuous Charge Current	
Continuous Discharge Current	
Peak Discharge Current	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Operating Temperature Discharge	-30
Operating Temperature Charge	-30
Storage Humidity	25%
Operating Humidity	0 -
Storage Temperature	-20
Cooling Method	Natu
COMPLIANCE INFORMATION	
Certificate Options	EN 62133 EN 61
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	
Weight	225Kg (Cour
Operating Humidity	
Environmental Protection	



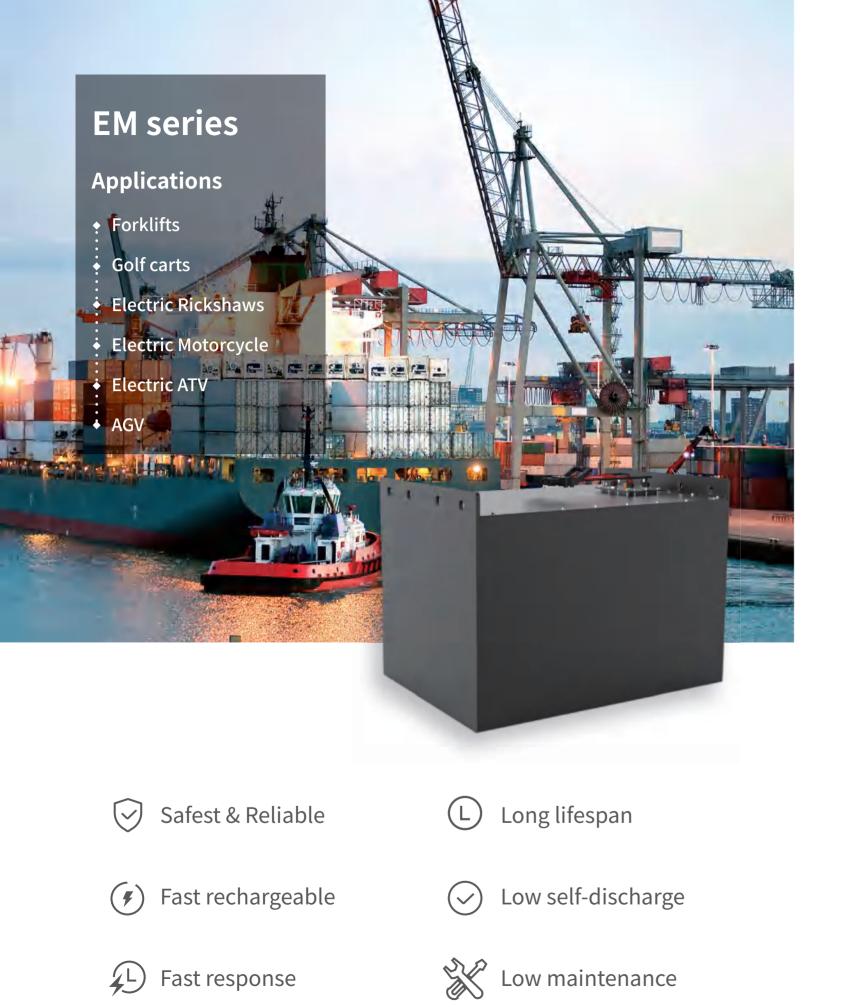
G-24V4180-F	
.18KWh	
182Ah	±5% @25°C
24V	
28V	
18V	
10S13P	
< 10 mΩ	@ 1KHz AC,50% SOC
150A	
150A	
300A	10s
90%	
100%	
°C ~+55°C	
°C ~+55°C	
ώ ~ 95%RH	
- 90% RH	
)°C ~40 °C	SOC>30%,one full charge needed per two months
ıral cooling	

:2013, EN 55032:2015+AC:2016, EN 55035:2017 1000-3-2:2014, EN 61000-3-3:2013, UN38.3

650*195*600(mm)

nterweight according to customer requirements)

0~90% RH Non-condensing



EM series

PERFORMANCE SPECIFICATIONS	
Part Number	GT
Energy Storage	
Rated Voltage	
Maximum Charge Voltage	
Discharge Cut-off Voltage	
ESR/AC @1KHz 50% SOC	
Max. Continuous Charge Current	
Max. Continuous Discharge Current	
Cut-off Current (charging)	
Peak Discharge Current (3s)	
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Maximum Depth of Discharge	
Cooling Method	
Monitoring Data	
Indicator light display	
Environmental Protection	
Series-Parallel Connection	
Storage Conditions	SOC>30
COMPLIANCE INFORMATION	
Certificate Options	EN 62133: EN 61
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	840
Weight	
Operating Humidity	
Environmental Protection	



TEM-48V21K-F	GTEM-48V32K-F
21KWh	32KWh
48V/DC	48V/DC
58.8V/DC	58V/DC
37.8V/DC	40V/DC
<50mΩ	<50mΩ
420A	300A
420A	300A
4A	4A
800A	500A
0°C ~+55°C	
-20°C ~+60°C	
3% per month	
100%	
Natural cooling	
Module voltage,SO	С
Capacity %	
Customized	
Not allowed	
-20°C ~+40°C / 5% ~ 95 80%,one full charge needed	
3:2013, EN 55032:2015+AC:20 51000-3-2:2014, EN 61000-3-3	
0x480x546(mm)	965x670x700(mm)
240Kg	960Kg
0~90% RH Non-conder	ising

EM series

Applications

- + Forklifts
- Golf carts
- Electric Rickshaws
- Electric Motorcycle
- Electric ATV
- . ♦ AGV



Safest & Reliable



Fast response

L Long lifespan





EM series

PERFORMANCE SPECIFICATIONS	
Part Number	GTE
Energy Storage	
Rated Voltage	
Maximum Charge Voltage	
Discharge Cut-off Voltage	
ESR/AC @1KHz 50% SOC	
Max. Continuous Charge Current	
Max. Continuous Discharge Current	
Peak Discharge Current (10s)	
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Cooling Method	
Monitoring Data	System
Parallel Connection	
Series-Parallel Connection	
Indicator light display	
Storage Conditions	SOC>3
COMPLIANCE INFORMATION	
Certificate Options	EN 6213 EN
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	645x
Weight	
Operating Humidity	
Environmental Protection	



M-24V5000-F	GTEM-72V15.5K-F
5.0KWh	15.5KWh
24V/DC	72V/DC
29V/DC	84V/DC
20V/DC	56V/DC
<10mΩ	<50mΩ
250A	150A
250A	150A
300A	300A
0°C ~+55°C	
-20°C ~+60°C	
3% per mont	h
≤ 90%	
100%	
Natural coolin	Ig
voltage,current,temperati	ure,SOC,cell's voltage
Not Allowed	
Not allowed	
Capacity %	
-20°C ~+40°C 25% ~ 95%Rł 30%,one full charge need	4
3:2013, EN 55032:2015+AC 61000-3-2:2014, EN 61000-	
565x245(mm)	740x540x320(mm)
190Kg	240Kg
0~90% RH Non-cond	densing



Safest & Reliable



Fast response

Long lifespan



X

Low maintenance

EM series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEM-
Energy Storage	3.
Rated Voltage	4
Maximum Charge Voltage	58
Discharge Cut-off Voltage	39
ESR/AC @1KHz 50% SOC	<)
Max. Continuous Charge Current	
Max. Continuous Discharge Current	
Cut-off Current (charging)	
Absolute Peak Current 3s	
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Cooling Method	
Storage Conditions	SOC>30
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	EN 62133 EN 61
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	720x35
Weight	l
Operating Humidity	
Environmental Protection	



-48V3600-G	GTEM-48V4500-G	
.6KWh	4.53KWh	
8V/DC	48V/DC	
8.8V/DC	58.8V/DC	
0.2V/DC	39.2V/DC	
20mΩ	<30mΩ	
200A	200A	
200A	200A	
4A	4A	
300A	400A	
	0°C ~+55°C	
	-20°C ~+60°C	
	2% per month	
	≤ 90%	
	100%	
I	Natural cooling	
-20°C ~+40°C 25% ~ 95%RH 0%,one full charge needed per two months		
System voltage,current, temperature, SOC,SOH,cycle,cell′s voltage		
:2013, EN 55032:2015+AC:2016, EN 55035:2017 1000-3-2:2014, EN 61000-3-3:2013, UN38.3		

55x252(mm)

793x355x252(mm)

55Kg

55Kg

0~90% RH Non-condensing

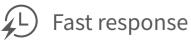
EM series

Applications

- Golf carts
- **Electric Rickshaws**
- Forklifts
- **Electric tools**
- Industry machine
- Electric ferry
- Electric sightseeing vehicle
- AGV

Safest & Reliable $[\checkmark]$





Long lifespan L



Low self-discharge



Low maintenance

EM series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEM-
Energy Storage	6.
Nominal Capacity	1
Rated Voltage	4
Maximum Charge Voltage	58
Discharge Cut-off Voltage	39
ESR/AC @1KHz 50% SOC	<
Max. Continuous Charge Current	:
Max. Continuous Discharge Current	:
Absolute Peak Current 3s	:
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Indicator light display	
Cooling Method	
Storage Conditions	SOC>30
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	EN 62133 EN 63
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	950x40
Weight	
Operating Humidity	
Environmental Protection	



-48V6500-G		GTEM-48V8500-G	
.5KWh		8.5KWh	
130Ah		171Ah	
8V/DC		48V/DC	
3.8V/DC		58.8V/DC	
0.2V/DC		39.2V/DC	
15mΩ		<15mΩ	
200A		200A	
200A		200A	
300A		300A	
	0°C ~+55°C		
	-20°C ~+60°C		
	2% per month		
	≤ 90%		
	100%		
	Capacity %		
1	Natural cooling	5	
	-20°C ~+40°C 25% ~ 95%RH		

0%, one full charge needed per two months

System voltage, current, temperature, SOC, SOH, cycle, cell's voltage

3:2013, EN 55032:2015+AC:2016, EN 55035:2017 1000-3-2:2014, EN 61000-3-3:2013, UN38.3

00x252(mm)

1124x400x256(mm)

75Kg

82Kg

0~90% RH Non-condensing

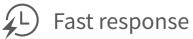
EM series

Applications

- Electric Motorcycle
 - Electric Rickshaws
- Golf carts
- Electric ATV
- Forklifts
- ✤ AGV
- UPS







Long lifespan L



Y)



Low maintenance

EM series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEM-
Energy Storage	18
Rated Voltage	4
Maximum Charge Voltage	58
Discharge Cut-off Voltage	39
ESR/AC @1KHz 50% SOC	<
Max. Continuous Charge Current	
Max. Continuous Discharge Current	
Absolute Peak Current 3s	
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Indicator light display	
Cooling Method	
Storage Conditions	SOC>3
Monitoring Data	
COMPLIANCE INFORMATION	
Certificate Options	EN 62133 EN 6
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	230x18
Weight	1
Operating Humidity	
Environmental Protection	



48V1800-M		GTEM-48V3300-M	
800Wh		3300Wh	
8V/DC		48V/DC	
8.8V/DC		58.8V/DC	
0.2V/DC		39.2V/DC	
12mΩ		<10mΩ	
30A		50A	
80A		80A	
100A		100A	
	0°C ~+55°C		
	-20°C ~+60°C		
	3% per month	I	
	≤ 90%		
	100%		
	Capacity %		
1	Natural cooling	g	

-20°C ~+40°C 25% ~ 95%RH 0%, one full charge needed per two months

System voltage, current, temperature, SOC,SOH,cycle,cell's voltage

3:2013, EN 55032:2015+AC:2016, EN 55035:2017 51000-3-2:2014, EN 61000-3-3:2013, UN38.3

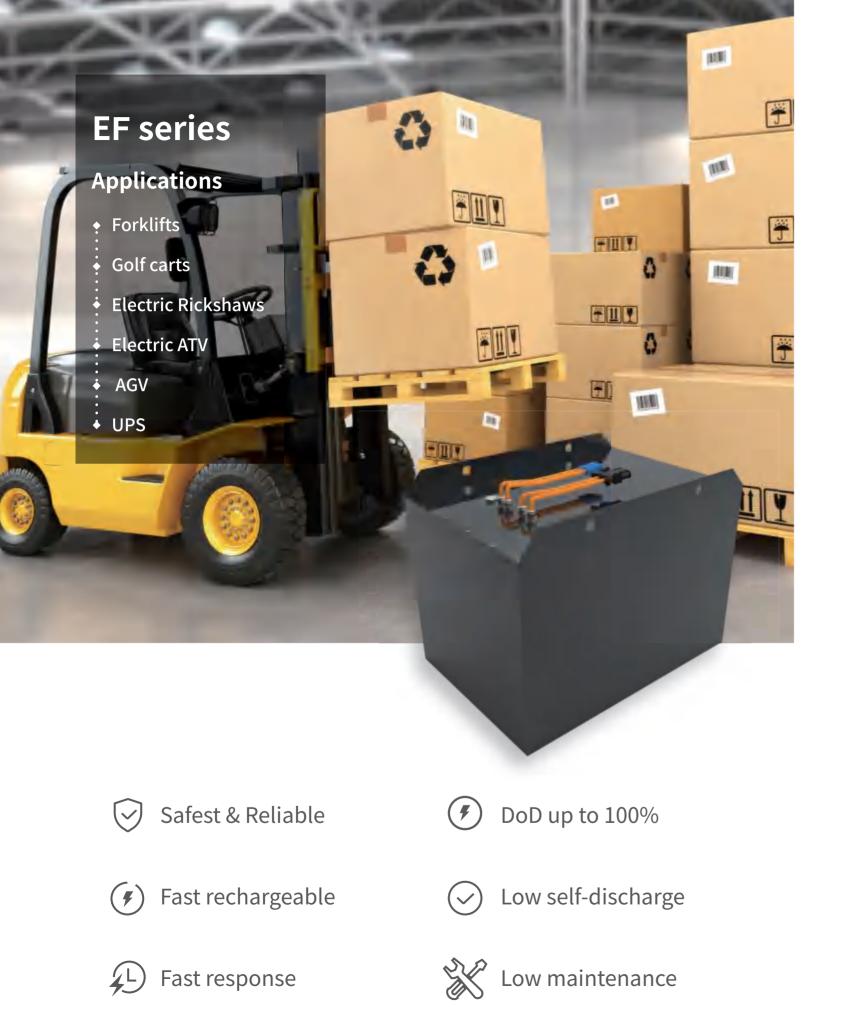
80x300(mm)

230x180x430(mm)

15.5Kg

24Kg

0~90% RH Non-condensing



EF series

PERFORMANCE SPECIFICATIONS	
Part Number	GTEF-8
Energy Storage	47.
System Nominal Capacity	60
Rated Voltage	80
Maximum Charge Voltage	90
Discharge Cut-off Voltage	70
ESR/AC @1KHz 50% SOC	<5
Max. Continuous Charge Current	1
Max. Continuous Discharge Current	3
Peak Discharge Current (10s)	5
Output Terminal	R
Charge Temperature	
Discharge Temperature	
Self-discharge Rate	
Recommended Depth of Discharge	
Maximum Depth of Discharge	
Cooling Method	
Storage Conditions	SOC>30
Monitoring Data	S
COMPLIANCE INFORMATION	
Certificate Options	EN 62133:20 6100
CONVENTIONAL PARAMETERS	
Dimensions(WxDxH)	1025x710
Weight	12
Operating Humidity	
Environmental Protection	



-80V47K-F		GTEF-80V80K-F	
7.5KWh		79.8KWh	
500Ah		1008Ah	
0V/DC		80V/DC	
0V/DC		90V/DC	
0V/DC		70V/DC	
50mΩ		<50mΩ	
150A		150A	
300A		300A	
500A		500A	
REMA		REMA	
	0°C ~+55°C		
	-20°C ~+55°C		

3% per month

5%~90%

100%

Natural cooling

-20°C ~+40°C 25% ~ 95%RH %, one full charge needed per two months

System voltage,current, temperature, SOC,SOH,cycle,cell's voltage

013, EN 55032:2015+AC:2016, EN 55035:2017, EN 00-3-2:2014, EN 61000-3-3:2013, UN38.3

.0x784(mm)

1140x985x600

280Kg

1580Kg

0~90% RH Non-condensing

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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