

Residential Energy Storage | C&I | Inverters



Trusted Eco Power & Storage

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The information in this manual may be subject to change with the development of the company, including but not limited to financial, operational Information such as the company, product series, technical parameters, etc. The information in this manual is for reference only and does not constitute. Any form of agreement or commitment; if modified, no further notice will be given.



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ODM One Stop Services

offers one-stop ODM services for energy storage systems, partnering with clients to develop products spanning residential, communication, commercial & industrial, utility-scale, and specialized equipment applications, helping clients bring their product visions to life.



OEM Premium Service Excellence

- ✓ Client Needs: Precision Understanding
- ✓ Detail Processing: Pursuit of Perfection
- ✓ Automated Production Line: Safe & Efficient
- ✓ Delivery & Quality: Dual Assurance



Corporate Strength

R&D System

Covers multiple fields including structural design, electrical design, and fluid simulation design. Through in-depth technology accumulation and innovation, we ensure the performance and stability of our products in all aspects. Meanwhile, we have unique advantages in the professional matching of BMS (Battery Management System) and PCS (Power Conversion System), providing customers with efficient and reliable energy storage solutions.



Structural Design



Electrical Design



Fluid Simulation Design



Professional Matching of BMS and PCS



Verification and Testing

Manufacturing Strength

We has strong manufacturing capabilities with a large-scale, intelligent and lean production system. Its modern production bases have an annual capacity of 10 GWh and are supported by smart factories for efficient and precise production. With ISO 9001, IATF 16949 certified quality management and full-process control, our defect rate is well below the industry average. Vertical supply chain integration and lean management optimize costs, while green manufacturing reduces energy use. Combining rapid R&D and flexible production, we efficiently meet customized demands and provide reliable OEM/ODM services to global leading customers, maintaining industry leadership in technology, efficiency and quality.

138 +

Export countries and areas over 138 +

10 GWh+

Annual planned production capacity 10GWh

500 K+

Installation system 500,000+

Certification System

Our products have passed various international certifications to meet the high standards of the global market, including ISO9001, ISO14001, ISO45001, UL1973, UN38.3, MSDS, CEI-021, CE-EMC, IEC62619, etc., ensuring that the products comply with international standards in safety, performance and quality.



IEC 62619



1P-LV EU Universal Grid-Connected Certification



UL1973



CE-EMC

Service Capabilities

We have built a global after-sales service network, including self-operated outlets and customer co-built service stations. Coverage in key markets such as South Africa and Pakistan is already complete. Our service system ensures rapid response to customer needs, with full support including spare parts warehousing and logistics, routine maintenance and commissioning, customer training, and regular warranty inspections to guarantee long-term product stability.



Network Layout

Co-build after-sales service stations with customers



Service System

Service outlets + spare parts warehousing + logistics + recycling



System Services

Routine maintenance and debugging + Customer guidance and training

AI Intelligent Ecology

Empowered by AI, we unlock the full lifecycle value of energy storage. Covering planning, design, delivery, O&M and sustainable development, we boost system efficiency and reliability through full-scenario calculation, customized design and refined management. The data chain encompasses collection, modeling, analysis and AI evaluation, uncovering operational potential.

It constructs an "sensing - cognition - execution - feedback" intelligent closed loop, enabling the system to continuously learn and self-optimize.



Data Collection



Digital Modeling



Online Analysis



AI Evaluation



Full-Scenario Calculation

AI integrates multi-modal data to accurately calculate system capacity and nonlinear characteristics, plan operational and trading strategies, dynamically evaluate returns, and maximize benefits.



Customized Design

AI-driven product customization and design optimization to enhance safety and reliability; full-process quality traceability, and intelligent joint commissioning of BMS/EMS/PCS/TMS multi-systems to accelerate delivery.



precision management

Cloud-based intelligent O&M covers 400+ health indicators, enabling early warning, fault diagnosis and digital expert assistance to reduce costs and improve efficiency.

Local lightweight AI algorithms support real-time EMS optimization and control, adaptive operation strategies and dynamic intelligent trading, delivering enhanced revenue.



Dual Carbon Management

With lifecycle data traceability and carbon footprint optimization, AI supports carbon neutrality and enables sustainable development.

TG-Rack Series

3U/4U/5U Rack-Mounted
Low-Voltage Battery Pack

- Standard 3U/4U/5U size, suitable for 19/21-inch communication cabinets.
- Long-life lithium iron phosphate cells, designed 10+ year service life.
- Fully modular design, customizable modules, easy maintenance & expansion.



3U Rack-Mounted LV Battery Pack

MODEL	TH-24100-R	TH-24200-R	TH-48100-R	TH-51100-R
Rate voltage(Vdc)	25.6		48	51.2
Cell combination	8S1P	8S2P	15S1P	16S1P
Rate capacity(AH)	100			
Energy storage(KWH)	2.56	5.12	4.8	5.12
Charge voltage(V)	28		54	57.6
Max.charge current(A)	100A			
Max.discharge current(A)	100A			
Discharge cut-off voltage(VDC)	21.6		40.5	43.2
Charge cut-off voltage(VDC)	29.2		54.75	57.6
Product dimension L*W*H(mm)	430*442*133		480*442*133	
Package dimension L*W*H(mm)	530*530*210		580*530*210	
Net weight(kg)	25	45	42	45
Gross weight(kg)	30	50	47	50
Certificates	UN38.3, MSDS, CE-EMC			UN38.3,MSDS, CE-EMC, IEC62619,UL1973

4U Rack-Mounted LV Battery Pack

MODEL	TH-48100-R	TH-48200-R	TH-51100-R	TH-51200-R
Rate voltage(Vdc)	48		51.2	
Cell combination	15S1P	15S2P	16S1P	16S2P
Rate capacity(AH)	100	200	100	200
Energy storage(KWH)	4.8	9.6	5.12	10.24
Max.charge current(A)	100A			
Max.discharge current(A)	100A			
Discharge cut-off voltage (VDC)	40.5		43.2	
Charge cut-off voltage (VDC)	54		57.6	
Product dimension L*W*H(mm)	460*440*178	680*440*178	460*440*178	680*440*178
Package dimension L*W*H(mm)	590*515*230	850*580*295	590*515*230	850*580*295
Net weight(about)(kg)	42.5	76.85	45	80.6
Gross weight(about)(kg)	47.1	84.3	49	86.7
Certificates	UN38.3, MSDS, CE-EMC			

5U Rack-Mounted LV Battery Pack

MODEL	TG-48304-R	TG-48314-R	TG-51205-R	TG-51304-R	TG-51314-R
Rate voltage(Vdc)	48		51.2		
Cell combination(S1P)	15S1P		16S1P		
Rate capacity(AH)	304	314	205	304	314
Energy storage(KWH)	14.6	15.1	10.5	15.6	16.1
Standard/Max.charge current(A)	150A/200A				
Max.discharge current(A)	200A				
Discharge cut-off voltage(VDC)	40.5		43.2		
Charge cut-off voltage(VDC)	54		57.6		
Product dimension L*W*H(mm)	780*445*230	780*445*230	600*442*222	780*446*230	780*446*230
Net weight(kg)	108.5	108.5	92	113.5	113.5
Certificates	UN38.3,MSDS,CE-EMC				
General configuration					
Cycle life	25±2°C,0.5C/0.5C,EOL70%≥6000				
Charge temperature	0°C~55°C@60±25%Relative Humidity				
Discharge temperature	-20°C~55°C@60±25%Relative Humidity				
Storage temperature	-20°C~50°C@60±25%Relative Humidity				
IP class	IP20				
Material system	LiFePO4				
Case material	Metal				
Case type	Rack Mount				
Protocol(Optional)	CAN/RS485/RS232				

• Images for reference only, please refer to the actual product images in the order

TG-Rack Series

3U Rack-Mounted
High-Voltage Battery Pack

- Modular core design; customizable modules, easy maintenance & replacement.
- Rack modular layout, balances cabinet space utilization and later maintenance, suitable for standardized communication room management.



TG-Rack series adopts modular design. Expand system capacity via parallel battery modules and multi-cabinet connection. Compatible with mainstream inverters, plug-and-play

3U Rack-Mounted High-Voltage Battery Pack

MODEL	TH-R-HV20	TH-R-HV25	TH-R-HV30	TH-R-HV35	TH-R-HV40
Cell model/Confuguration	3.2V100Ah /64S1P	3.2V100Ah /80S1P	3.2V100Ah /96S1P	3.2V100Ah /112S1P	3.2V100Ah /128S1P
System nominal voltage(V)	204.8	256	307.2	358.4	409.6
System operating voltage(V)	172.8~230.4	216~288	259.2~345.6	302.4~403.2	345.6~460.8
System energy(kWh)	20.48	25.6	30.72	35.84	40.96
Dimension W*D*H(mm)	538*492*791		538*492*1091	538*492*1241	538*492*1391
Weight(kg)	195	240	285	330	375
MODEL	TH-R-HV46	TH-R-HV51	TH-R-HV56	TH-R-HV61	TH-R-HV66
Cell model/Confuguration	3.2V100Ah /144S1P	3.2V100Ah /160S1P	3.2V100Ah /176S1P	3.2V100Ah /192S1P	3.2V100Ah /208S1P
System nominal voltage(V)	460.8	512	563.2	614.4	665.6
System operating voltage(V)	388.8~518.4	432~576	475.2~633.6	518.4~691.2	561.6~748.8
System energy(kWh)	46.08	51.2	56.32	61.44	66.56
Dimension W*D*H(mm)	538*492*1541	538*492*1691	538*492*1841	538*492*1991	538*492*2141
Weight(kg)	420	465	510	555	600
Cell chemistry	LiFeP04				
Module energy(kWh)	5.12				
Module nominal voltage(V)	51.2				
Module capacity(Ah)	100				
Charge/Discharge Current(A) Recommend	50				
Charge/Discharge Current(A) Max	100				
Working temperature	Charge:0°C~50°C;Discharge:-20°C~55°C				
Communication port	CAN2.0/RS485/WIFI				
Humidity	5~85%RH Humidity				
Altitude	≤2000m				
IP rating of enclosure	IP20				
Installation location storage	Rack Mount				
Storage temperature(°C)	0°C~35°C				
Recommend depth of discharge	90%				
Cycle life	25±2°C,0.5C/0.5C,EOL70%≥6000				
Certificates	UN38.3,MSDS,CE-EMC				

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TG-Rack Series

5U Rack-Mounted
High-Voltage Battery Pack



Technical Features

- Cabinet Compatibility & Installation:
- Compatible with 19- / 21-inch standard communication cabinets. Standard 3U/5U size, with excellent cabinet integration adaptability.
- Cell & Service Life:
- Adopts long-life LFP (Lithium Iron Phosphate) cells, with outstanding cycle life. Designed service life exceeds 10 years.
- Modular Design & Maintenance:
- Fully modular architecture design. Independent hot-swappable modules. Capacity expansion available without shutdown, suitable for diversified power demands.
- Performance & Safety:
- Intrinsically safe LFP cells. Multiple protections against over-charge, overdischarge and short circuit for higher reliability.

5U Rack-Mounted High-Voltage Battery Pack 51314-R4~R15

MODEL	TH-51314-R4	TH-51314-R5	TH-51314-R6	TH-51314-R7	TH-51314-R8	TH-51314-R9
Nominal voltage	204.8	256	307.2	358.4	409.6	460.8
Cell mode/Configuration	3.2V314Ah /64S1P	3.2V314Ah /80S1P	3.2V314Ah /96S1P	3.2V314Ah /112S1P	3.2V314Ah /128S1P	3.2V314Ah /144S1P
Capacity(Ah)	314					
Rate energy(kWh)	64.31	80.39	96.46	112.54	128.61	144.70
Weight(Approx)(kg)	574	708	841	975	1128	1242
Dimension W*D*H(mm)	550*776*1450	550*776*1700	550*776*1960	550*776*2210	1100*776*1450	1100*776*1450
Voltage range(Vdc)	172.8~230.4	216~288	259.2~345.6	302.4~403.2	345.6~460.8	307.8~410.4
MODEL	TH-51314-R10	TH-51314-R11	TH-51314-R12	TH-51314-R13	TH-51314-R14	TH-51314-R15
Nominal voltage	512	563.2	614.4	665.6	716.8	768
Cell mode/Configuration	3.2V314Ah /160S1P	3.2V314Ah /176S1P	3.2V314Ah /192S1P	3.2V314Ah /208S1P	3.2V314Ah /224S1P	3.2V314Ah /240S1P
Capacity(Ah)	314					
Rate energy(kWh)	160.77	176.84	192.92	209.00	225.08	241.15
Weight(Approx)(kg)	1395	1510	1662	1780	1930	2045
Dimension W*D*H(mm)	1100*776*1690	1100*776*1710	1100*776*1960	1100*776*1960	1100*776*2210	1100*776*2210
Voltage range(Vdc)	432~576	475.2~633.3	518.4~691.2	561.6~748.8	604.8~806.4	648~864
Max.charge/discharge current(A)	140					
Scalability	Up to 4 clusters in parallel					
Communication	RS485(B)-BAT/RS485(A)-PC/Canbus-Inverter					
Cycle life	25±2°C,0.5C/0.5C,EOL70%≥6000					
Design life	≥15 years(25°C)					
Protection	BMS,Breaker					
Operation temperature(°C)	Charge:0°C~50°C;Discharge: -20°C~50°C					
Altitude(m)	≤2000					
Humidity	<95%(Non-condensing)					
Certificates	UN38.3,MSDS,CE-EMC					

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5U Rack-Mounted High-Voltage Battery Pack 64314-R4~R15

MODEL	TH-64314-R4	TH-64314-R5	TH-64314-R6	TH-64314-R7	TH-64314-R8
Nominal voltage	256	320	384	448	512
Cell mode/Configuration	3.2V314Ah /80S1P	3.2V314Ah /100S1P	3.2V314Ah /120S1P	3.2V314Ah /140S1P	3.2V314Ah /160S1P
Capacity(Ah)	314				
Rate energy(kWh)	80.38	100.48	120.58	140.67	160.77
Weight(Approx)(kg)	574	708	841	975	1128
Dimension W*D*H(mm)	550*937*1450	550*937*1700	550*937*1960	550*937*2210	1100*937*1450
Voltage range(Vdc)	216~288	270~360	324~432	378~504	432~576
MODEL	TH-64314-R9	TH-64314-R10	TH-64314-R11	TH-64314-R12	TH-64314-R13
Nominal voltage	576	640	704	768	832
Cell mode/Configuration	3.2V314Ah /180S1P	3.2V314Ah /200S1P	3.2V314Ah /220S1P	3.2V314Ah /240S1P	3.2V314Ah /260S1P
Capacity(Ah)	314				
Rate energy(kWh)	180.86	200.96	221.06	241.15	261.25
Weight(Approx)(kg)	1242	1395	1510	1662	1780
Dimension W*D*H(mm)	1100*937*1450	1100*937*1710	1100*937*1710	1100*937*1960	1100*937*1960
Voltage range(Vdc)	486~648	540~720	594~792	648~864	702~936
Max.charge/discharge current(A)	140				
Scalability	Up to 4 clusters in parallel				
Communication	RS485(B)-BAT/RS485(A)-PC/Canbus-Inverter				
Cycle life	25±2°C,0.5C/0.5C,EOL70%≥6000				
Design life	≥15 years(25°C)				
Protection	BMS,Breaker				
Operation temperature(°C)	Charge:0°C~50°C;Discharge: -20°C~50°C				
Altitude(m)	≤2000				
Humidity	<95%(Non-condensing)				
Certificates	UN38.3,MSDS,CE-EMC				

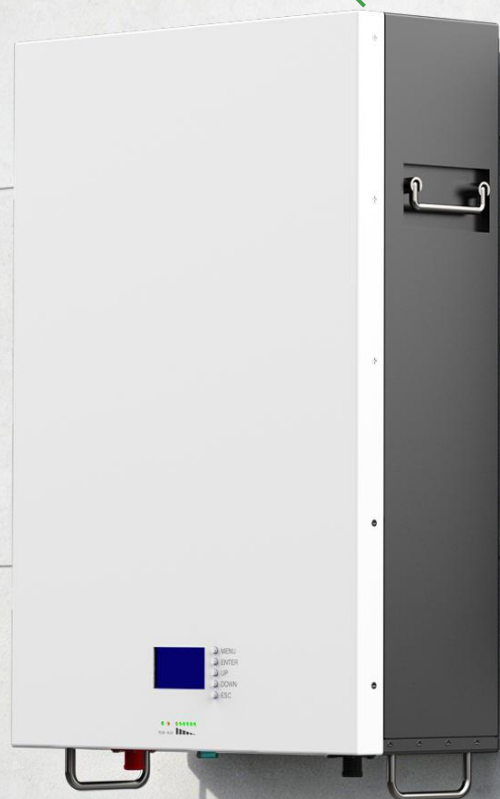
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TG-PW Series

Wall-Mounted Battery Pack
(Small / Large)

Wall-Mounted
Battery Pack (Large)

Wall-Mounted
Battery Pack (Small)



- Intrinsic Safety & Long Service Life: Adopts LFP (Lithium Iron Phosphate) cells with high thermal stability. It fundamentally eliminates thermal runaway risks and meets strict residential safety requirements. Long cycle life (≥6000 cycles @80% DOD) with lower lifecycle cost.

TG-PW Series Wall-Mounted Battery Pack (Small)

MODEL	TH-24100-W	TH-24200-W	TH-25314-W	TH-48100-W	TH-51100-W
Rate voltage(Vdc)	25.6			48	51.2
Cell combination	8S1P	8S2P	8S1P	15S1P	16S1P
Rate capacity(AH)	100	200	314	100	100
Energy storage(KWH)	2.56	5.12	8.0	4.8	5.12
Cycle life	25±2°C,0.5C/0.5C, EOL70%≥6000				
Max.charge current(A)	100A		150A	100A	
Max.discharge current(A)	100A		150A	100A	
Discharge cut-off voltage(VDC)	21.6			40.5	43.2
Charge cut-off voltage(VDC)	28.8			54	57.6
Charge temperature	0°C~50°C@60±25% Relative Humidity				
Discharge temperature	-20°C~50°C@60±25% Relative Humidity				
Storage temperature	-20°C~50°C@60±25% Relative Humidity				
IP class	IP20				
Materialsystem	LiFePO4				
Case material	Metal				
Case type	Wall Mount				
Product dimension L*W*H(mm)	580*390*195		618*390*206	580*390*195	
Package dimension L*W*H(mm)	660*450*240		785*475*275	660*450*240	
Net weight(kg)	41.5	54	68	52	54
Gross weight(kg)	51	64	78	62	64
Protocol(Optional)	CAN/RS485/RS232				
Monitoring	Bluetooth/WLAN Optional				
Certificates	UN38.3,MSDS, CE-EMC				

TG-PW Series Wall-Mounted Battery Pack (Large)

MODEL	TH-48100-W	TH-48200-W	TH-51100-W	TH-51200-W
Rate voltage(Vdc)	48		51.2	
Cell combination	15S1P	15S2P	16S1P	16S2P
Rate capacity(AH)	100	200	100	200
Energy storage(KWH)	4.8	9.6	5.12	10.24
Cycle life	25±2°C,0.5C/0.5C,EOL70%≥6000			
Max.charge current(A)	100A			
Max.discharge current(A)	100A			
Discharge cut-off voltage (VDC)	40.5		43.2	
Charge cut-off voltage(VDC)	54		57.6	
Charge temperature	0°C~50°C@60±25% Relative Humidity			
Discharge temperature	-20°C~50°C@60±25% Relative Humidity			
Storage temperature	-20°C~50°C@60±25% Relative Humidity			
IP class	IP20			
Material system	LiFeP04			
Case material	Metal			
Case type	Wall Mount			
Product dimension L*W*H(mm)	690*485*226	690*485*226	690*485*226	690*485*226
Package dimension L*W*H(mm)	850*570*285	850*570*285	850*570*285	850*570*285
Net weight(kg)	42	85	44	88
Gross weight(kg)	47	95	49	98
Protocol(Optional)	CAN/RS485/RS232			
Monitoring	Bluetooth/WLAN Optional			
Certificates	UN38.3, MSDS, CE-EMC	UN38.3, MSDS, CE-EMC, IEC62619,UL1973	UN38.3, MSDS, CE-EMC	

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TG-PW Series

Wall-Mounted Battery Pack
(Floor-Standing)

- Flexible Installation & Space Saving: Integrated wall-mounted design, directly mountable on walls. No extra brackets or floor space required. Greatly saves indoor & garage space, with flexible installation positions, ideal for space-limited scenarios.
- Built-in smart BMS supports precise battery status Monitoring Method, active cell balancing, fault protection and communication (CAN/RS485). It achieves seamless integration with mainstream inverters & energy management systems, realizing intelligent charging and discharging.



TG-PW Series Wall-Mounted Battery Pack (Floor-Standing)

MODEL	TH-51304-W
Rate valtage(Vdc)	51.2
Cell combination	16S1P
Rate capacity(AH)	304
Energy storage(KWH)	15.56
Cycle life	25±2℃,0.5C/0.5C,EOL70%≥6000
Max.charge current(A)	200A
Max.discharge current(A)	200A
Discharge cut-off voltage (VDC)	43.2
Charge cut-off voltage (VDC)	57.6
Charge temperature	0℃~55℃@60±25%Relative Humidity
Discharge temperature	-20℃~55℃@60±25%Relative Humidity
Storage temperature	-20℃~50℃@60±25%Relative Humidity
IP class	IP20
Material system	LiFePO4
Case material	Metal
Case type	Floor standing wall mounted
Product dimension L*W*H(mm)	900*525*186
Package dimension L*W*H(mm)	1030*635*275
Net weight(kg)	125
Gross weight(kg)	132
Protocol(Optional)	CAN/RS485/RS232
Monitoring	Bluetooth/WLAN Optional
Certificates	UN38.3,MSDS

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TG-TH Series

Mobile Battery Pack

- Ultra-Large Capacity & Long-Lasting Power:SupplyWith a maximum 16.1kWh capacity, it supports long-hour operation of high-power devices (power tools, small machinery), and provides all-day backup power for small commercial activities.
- Rapid Deployment:Wheel-type mobile design, free from fixed installation restrictions. Perfectly meets temporary power demands for outdoor sites, construction sites and exhibitions.

TG-TH Series Mobile Battery Pack

MODEL	TG-51100-M	TG-51205-M	TG-51304-M	TG-51314-M
Rate voltage(Vdc)	51.2			
Cell combination(S1P)	16			
Rate capacity(AH)	100	205	304	314
Energy storage(KWH)	5.12	10.5	15.6	16.1
Cycle life	25±2°C,0.5C/0.5C, EOL70%≥6000			
Max. charge current(A)	100A	200A		150A
Max.discharge current(A)	100A	200A		
Discharge cut-off voltage(VDC)	43.2			
Charge cut-off voltage(VDC)	57.6			
Charge temperature	0°C~50°C@60±25% Relative Humidity			
Discharge temperature	-20°C~50°C@60±25% Relative Humidity			
Storage temperature	-20°C~50°C@60±25% Relative Humidity			
IP class	IP20			
Material system	LiFePO4			
Case material	Metal			
Case type	Mobile Power			
Product dimension L*W*H(mm)	612*370*190	622*520*227	766*614*221	766*614*221
Package dimension L*W*H(mm)	712*535*298	722*695*328	866*695*328	866*695*328
Net weight(kg)	55	92	122	122
Gross weight(kg)	60	112	145	145
Protocol(Optional)	CAN/RS485/RS232			
Monitoring	Bluetooth/WLAN Optional			
Certificates	UN38.3, MSDS		UN38.3,MSDS	

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TG-TH Series

Wheel-typebattery

- Ultra-high capacity and reliable power supply: With a 16 kWh capacity, it supports prolonged operation of high-power equipment (such as power tools and small generators) or provides round-the-clock backup power for small commercial operations.
- Smart Integration & Management: Featuring an integrated intelligent Battery Management System (BMS) with precise battery status monitoring, balancing management, fault protection, and communication capabilities (e.g., CAN/RS485). It seamlessly interfaces with mainstream inverters and energy management systems to enable intelligent charging and discharging.



TG-TH Series Wheeled Battery

MODEL	TH-51314-MT
Rate valtage(Vdc)	51.2
Cell combination	16S1P
Rate capacity(AH)	314
Energy storage(KWH)	16
Max.charge current(A)	150A
Max.discharge current(A)	200A
Discharge cut-off voltage (VDC)	43.2
Charge cut-off voltage (VDC)	58.4
internal resistance	≤20mΩ
Charge temperature	0°C~55°C
Discharge temperature	-20°C~55°C
Storage temperature	-20°C~55°C@60±25%Relative Humidity
Material system	LiFePO4
Case material	Metal
Case type	Floor standing wall mounted
Product dimension L*W*H(mm)	480*271.5*903.5
Net weight(kg)	127Kg±1Kg
Protocol(Optional)	CAN/RS485/RS232
Monitoring	Bluetooth/WLAN Optional

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TG-MA Series

Wheel-type battery

- Ultra-high safety: Utilizes lithium iron phosphate (LFP) cells with long cycle life and high thermal stability
- Multi-output interfaces: Supports AC (e.g., 220V/50Hz) and DC outputs, equipped with multiple ports (including sockets and USB), compatible with household appliances and small devices.
- Supports solar power integration: Compatible with mainstream household photovoltaic panels (e.g., 200W-600W specifications)



TG-MA Series wheeled battery

MODEL	TG-MA-5K5LV		TG-MA-6K10LV
RATED POWER	5000VA/5000w		6200VA/6200W
INPUT			
Nominal Voltage	230VAC		
Selectable Voltage Range	170-280VAC(PC)		
	90-280VAC(Appliances)		
Nominal Frequency	50/60Hz(Auto Sensing)		
OUTPUT			
Nominal Voltage	230VAC(Settable)		
Surge Power	10000VA	12400VA	
Frequency	50/60Hz		
Peak Efficiency(PVto INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Transfer Time	10ms(UPS)		
	20ms(Appliances)		
Waveform	Pure Sine Wave		
Overload Protection	60s@105%~110%Load		
	10s@110%~140%Load		
	5s@≥140%Load		
BATTERY			
Battery Type	LiFePO4		
Battery Voltage	51.2VDC		
Capacity	100Ah	206Ah	
Battery Voltage Range	42~58.4V		
SOLAR CHARGER &AC CHARGER			
Solar Charger Type	MPPT		
Maximun PV Array Power	5500W	6500W	
Maximun PV Array Open Citcuti Voltage	500VDC		
MPPT Operating Voltage Range	60VDC~450VDC		
Maximun PV Input Current	27A		
Maximun Solar Charge Current	100A	120A	
Maximun AC Charge Current	30A/100A		
Maximun Charge Current(PV+AC)	100A	120A	
PHYSICAL			
Product Dimension,D×W×H(mm)	450×280×705	600×340×705	
Packing Dimension,D×W×H(mm)	535×365×765	690×425×755	
Net Weight(kgs)	60	94	
Communication Interface	RS232/RS485(BMS)/Bluetooth/WiFi		
Lithium Battery Activation	YES(By PVor Utility)		
Parallel Capacity	YES		
Type of PV Connection	MC4		
Type of AC input Connection	IEC C14 Inlet/Circular Connector		
Type of Battery Expansion Connection	Circular Connector(Optional)		
Type of AC Output Connection	30A Circular Connector×1		
	10A CN/13A UK/16A EU/ect.Standard Socket×3		
Type of DC Output Connection	USB:18W×4,Type C:100W×1,60W×1		
	DC:12V10A×1,12V5A×2		
OPERATING ENVIRONMENT			
Operating Temperature Range	Charge:0°C~50°C		
	Discharge:-10~50°C		
Storage Temperature	-20°C~25°C		
Humidity	5%~95%Relative Humidity(Non-condensing)		

• Images for reference only, please refer to the actual product images in the order

TG-MA Series

All in one system

- Efficient integration: Built-in 120A/140A/160A MPPT solar charger
- User-friendly human-machine interface: 5-inch color LCD display with energy flow functionality
- Broad photovoltaic input voltage range: 60VDC to 500VDC; maximum photovoltaic input current: 27A (27 × 2A).
- Integrated design: MPPT + inverter + battery
- Scalability: Supports concurrent operations

TG-MA Series All in one system

MODEL	TG-MA6K16LV		TG-MA8K16LV	TG-MA11K16LV
RATED POWER	6200VA/6200W		8200VA/8200W	11200VA/11200W
RATED Capacity	16kWh		16kWh	16kWh
INPUT				
Nominal Voltage	230VAC			
Selectable Voltage Range	170 ~ 280VAC(UPS) 90 ~ 280VAC(Appliances)			
Nominal Input Frequency	50/60Hz(Auto Sensing)			
OUTPUT				
Nominal Voltage	230VAC(Settable)			
Surge Power	12400VA	16400VA	22400VA	
Frequency	50/60Hz			
Peak Efficiency(PV to INV)	96%			
Peak Efficiency(Battery to INV)	93%			
Transfer Time	10ms(UPS) 20ms(Appliances)			
Waveform	Pure Sine Wave			
Overload Protection	60s@105% ~ 110% Load 10s@110% ~ 140% Load 5s@≥140% Load			
BATTERY				
Battery Type	LiFePO4	LiFePO4	LiFePO4	
Battery Voltage	51.2VDC	51.2VDC	51.2VDC	
Capacity	314Ah	314Ah	314Ah	
Battery Voltage Range	40~58.4V	40~58.4V	40~58.4V	
Maximum Battery Discharge Current	128A	157A	157A	
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximun PV Array Power	6500W	13000W(6500W×2)	13000W(6500W×2)	
Maximun PV Array Open Citcuti Voltage	500VDC	500VDC	500VDC	
MPPT Operating Voltage Range	60VDC ~ 450VDC	60VDC ~ 450VDC	60VDC ~ 450VDC	
Maximun PV Input Current	27A	27A×2	27A×2	
Maximun Solar Charge Current	120A	140A	157A	
Maximun AC Charge Current	100A	120A	140A	
Maximun Charge Current(PV+AC)	120A	140A	157A	
PHYSICAL				
Product Dimension,D×W×H(mm)	700×310×1100	700×310×1100	700×310×1100	
Packing Dimension,D×W×H(mm)	795×400×1260	795×400×1260	795×400×1260	
Net Weight(kgs)	125	130	130	
Communication Interface	RS232(Inverter)/CAN(BMS)/Bluetooth/WiFi			
Lithium Battery Activation	YES(By PV or Utility)			
OPERATING ENVIRONMENT				
Operating Temperature Range	Charge:0°C~50°C Discharge:-20°C~50°C			
Storage temperature	Temperature: 0 ~ 35°C Storage: 6 months @ SOC: 20% ~ 50% Temperature: -15 ~ 0°C, 35 ~ 45°C Storage: 1 months @ SOC: 20% ~ 50%			
Humidity	10% ~ 85% Relative Humidity (Non-condensing)			

• Images for reference only, please refer to the actual product images in the order

TG-SS-5HVS Series

High Voltage Stack Battery Pack

- Stacked design with wireless connectivity for easy installation;
- Highly scalable, with flexible power selection ranging from 9.6 to 19.2 kWh.
- IP65-rated design for outdoor use environments.
- Supports grid connection for renewable energy sources to meet diversified energy demands;
- Three-phase 400Vac output to meet high-power household load requirements.



TG-SS-5HVS Series High Voltage Stack Battery Pack

MODEL	TG-SS-HV2	TG-SS-HV3	TG-SS-HV4	TG-SS-HV5
Rate voltage(Vdc)	192	288	384	480
Cell combination(S1P)	3051P*2S	3051P*3S	3051P*4S	3051P*5S
Rate capacity(AH)	50			
Energy storage(KWH)	9.6	14.4	19.2	24
Cycle life	25±2°C,0.5C/0.5C, EOL70%≥6000			
Max. charge current(A)	50			
Max.discharge current(A)	50			
Discharge cut-off voltage(VDC)	162	243	324	405
Charge cut-off voltage(VDC)	216	324	432	540
Charge temperature	0°C~50°C@60±25% Relative Humidity			
Discharge temperature	-20°C~50°C@60±25% Relative Humidity			
Storage temperature	-40°C~50°C@60±25% Relative Humidity			
IP class	IP65			
Material system	LiFePO4			
Case material	Metal			
Case type	Stand Stack			
Product dimension L*W*H(mm)	680*185*1035	680*185*1425	680*185*1815	680*185*2205
Package dimension L*W*H(mm)	780*295*450*3	780*295*450*4	780*295*450*5	780*295*450*6
Net weight(kg)	14+49*2	14+49*3	14+49*4	14+49*5
Gross weight(kg)	21+53*2	21+53*3	21+53*4	21+53*5
Protocol(Optional)	CAN/RS485			
Monitoring	Bluetooth/WLAN Optional			
Certificates	UN38.3, MSDS, CE-EMC, IEC62619,63056			

- Images for reference only, please refer to the actual product images in the order

TG-ESS-9HVS Series

Three-Phase All in One System

- The integrated stacked design ensures 100% compatibility between batteries and inverters,resulting in more reliable system operation.
- The modular design allows flexible selection of power capacities ranging from 9.6 to 19.2 kWh,paired with 8-12 kW hybrid inverter modules.
- Three-phase 400Vac output to meet high-power household load requirements.

TG-ESS-9HVS Series Three-Phase All in One System

MODEL	TG-ESS-9HV-S1		TG-ESS-9HV-S2
PV Specifications			
Max.PV Input Power	15000W		
Nominal DC Voltage/Voc	600Voc		
Start-up/Min.Operation Voltage	180Vdc		
MPPT Voltage Range	150-950Vdc		
No.Of MPPTs/Strings	2(1/2)		
Max.PV Input Current	48A(16A+32A)		
INPUT/OUTPUT(AC)			
Max.AC Input Power From Grid	20500VA		
Rated AC Output Power	10000W		
Max.AC Output Apparent Power	11000VA		
Rated/Max.AC Output Current	15.2A/16.7A		
Rated AC Voltage	3/N/PE 220V/380V 230V/400V 240V/415V		
AC Voltage Range	270-480V		
Rated Grid Frequency	50Hz/60Hz		
Grid Frequency Range	45~55Hz/55-65Hz		
Harmonic(THD)(Of Rated Power)	<3%		
Power Factor At Rated Power	>0.99		
Adjustable Power Factor	0.8leading....0.8lagging...		
AC Type	Three phase		
BATTERY DATA			
Rate Voltage(Vdc)	192	384	
Cell combination	60S1P*1	60S1P*2	
Rate Capacity(Ah)	50		
Energy Storage(kWh)	9.6	19.2	
Cycle life	25±2℃,0.5C/0.5C,EOL70%≥6000		
Max.Charge/Discharge Current(A)	30		
Discharge Cut-off Voltage(VDC)	162	324	
Charge Cut-off Voltage(VDC)	216	432	
ENVIRONMENT			
Charge temperature	0℃~55℃@60±25%Relative Humidity		
Discharge temperature	-20℃~50℃@60±25% Relative Humidity		
Storage temperature	-20℃~50℃@60±25% Relative Humidity		
MECHANICAL			
IP Class	IP65		
Material System	LiFePO4		
Case Material	Metal		
Case Type	All In One Stack		
Product Dimension L*W*H(mm)	Inverter high-voltage box:800*210*775/Battery box:800*188*512(single)		
Package Dimension L*W*H(mm)	Inverter high-voltage box:1115*300*880 Battery box:920*310*735(single) (Packaging size Including accessories)	Inverter high-voltage box:1115*300*880 Battery box:920*310*735(single)*2 (Packaging size Including accessories)	
Net weight(kg)	Inverter high-voltage box:65kg Battery box:95kg Accessory box:9kg	Inverter high-voltage box:65kg Battery box:95kg*2 Accessory box:9kg	
Gross weight(kg)	Inverter high-voltage box:76kg(Including accessories)/Battery box:105kg		
COMMUNICATION			
Protocol(Optional)	RS485/RS232/WLAN Optional		
CERTIFICATES			
	EN,IEC,NRS,G99,UN38 3,MSDS,CE		

• Images for reference only, please refer to the actual product images in the order

TG-PA6.2k5 Series

Off-grid integrated energ
storag system

- Stacked design with wireless connectivity for easy installation
- Efficient integration: Built-in 120A maximum power point tracking (MPPT) solar charger
- Scalability; can be expanded from 5 KWh to 20 KWh
- Flexible: Wide photovoltaic input voltage range: 60VDC to 500VDC, maximum photovoltaic input current: 27A

TG-PA6.2k5 Series All in one system

MODEL	TG-PA6.2k5LV1	TG-PA6.2k5LV2	TG-PA6.2k5LV3	TG-PA6.2k5LV4
RATED POWER	6200VA/6200W			
INPUT				
Nominal Voltage	230VAC			
Selectable Voltage Range	170-280VAC (UPS) 90-280VAC (Appliances)			
Nominal Frequency	50/60Hz (Auto Sensing)			
OUTPUT				
Nominal Voltage	230VAC (Settable)			
Surge Power	12400VA			
Frequency	50/60Hz			
Peak Efficiency (PV to INV)	96%			
Peak Efficiency(Battery to INV)	93%			
Transfer Time	10ms (UPS) 20ms (Appliances)			
Waveform	Pure Sine Wave			
Overload Protection	60s@105%~110% Load 10s@110%~140% Load 5s@≥140% Load			
BATTERY				
Battery Type	LiFePO4			
Battery Voltage	51.2VDC			
Combination Method	16S1P×1	16S1P×2	16S1P×3	16S1P×4
Capacity	100Ah			
Energy Storage(kWh)	5.12	10.24	20.48	15.36
Battery Voltage Range	42.0V~58.4V			
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximun PV Array Power	6500W			
Maximun PV Array Open Citcuti Voltage	500VDC			
MPPT Operating Voltage Range	60VDC~450VDC			
Maximun PV Input Current	27A			
Maximun Solar Charge Current	120A			
Maximun AC Charge Current	100A			
Maximun Charge Current (PV+AC)				
PHYSICAL	640×190×840	640×190×1180	640×190×1520	640×190×1860
Product Dimension,D×W×H(mm)	Inverters: 726×190×440 Battery: 760×460×340			
Net Weight (kg)	60	110	160	210
Display Configuration	Segment LCD/Segment LCD+RGB LED /5" Color LCD/7" Color LCD			
Communication Interface	RS232/RS485(BMS)/Bluetooth/WiFi			
Lithium Battery Activation	YES(By PV or Utility)			
Parallel Capacity	YES (Optional)			
Type of AC Output Connection	Terminal Block×1 10A Universal Socket/13A UK/16A EU/ect. Standard Socket×1			
OPERATING ENVIRONMENT				
Operating Temperature Range	Charge: 0°C~50°C Discharge: -10~50°C			
Storage Temperature	-20°C~25°C			
Humidity	5%~95% Relative Humidity (Non-condensing)			

Images for reference only, please refer to the actual product images in the order

TG-eBlock Series

Small industrial and commercial
air-cooled outdoor battery cabinet

- High efficiency: high energy density and high charge-discharge efficiency;
- More advanced: Innovative temperature control technology extends battery life by 20%;
- High safety: Multi-level safety design with Fuse + two-stage fire suppression system;



TG-eBlock Series

Small industrial and commercial
air-cooled outdoor battery cabinet

MODEL	TG-eBock-120F2
Battery parameters	
Battery Type	LFP
Number of battery packs	6
Rated voltage	384V
Voltage range	300~438V
Rated energy	120.5kWh
Max.continuous charging and discharging current	200A
Discharge Depth	90%
Cycle life	6000 times
PV parameters	
Max.PV input power	120kW
Rated input voltage	600VDC
Max.input voltage	1000VDC
MPPT voltage range	150~950VDC
PV input current	42A*10
AC side parameters	
AC rated output power	60kW
AC Max.output power	60kVA
AC rated input/output current	157.5A
Isotransformer	Transformerless
Voltage	3L/N/PE;230/400V
Frequency	50/60Hz
THDi	≤3%
Power Factor	0.8 leading to 0.8 lagging
System parameters	
Dimension(W*H*D)	W750*H2095*D1200mm
Weight	about 1498kg
Communication	CAN/RS485/WiFi/ETH
Design Life	10 years+
Expansion	Support in parallel
Enclosure protection rating	IP54
Cooling	Air cooling
Operation temperature	Charging:0~50°C/Discharge: -20~50°C
Humidity	10%~95%RH
Altitude	<2000m

- Images for reference only, please refer to the actual product images in the order

TG-eBank-241F

Industrial and commercial air-cooled integrated light storage cabinet

- Reliable and secure: Intelligent real-time monitoring, multi-level protection design, comprehensive coverage;
- Integrated Design: Highly integrated MPPT, PCS, and STS components, resulting in a compact footprint and lower costs.
- Supports parallel operation: Enables seamless multi-machine parallel operation with flexible capacity configuration and on-demand scaling.
- Intelligent Management: Supports remote updates and firmware upgrades, cloud-based energy management, and easier maintenance.

TG-eBank-241F

Industrial and commercial air-cooled integrated light storage cabinet

MODEL	TG-eBank-241F2
Battery parameters	
Cell material	LFP
Rated voltage	768V
Voltage range	600~876V
Rated energy	241kWh
Rated charge/discharge Power	105KW
Max.chargeing current	157A
Cycles life	6000 cycles@70%EOL
PV parameters(Optional)	
Rated power	120kW
Rated input voltage	600Vdc
Max.input voltage	1000Vdc
MPPT Votage range	150 ~ 950Vdc
PV input current	45A*8
AC side parameters	
AC rated input/output power	105kVA
AC Max.input/output power	116kVA
Overload capacity	1.2Pn,lasting for 1 minute
Maximum efficiency	98.5%
Volatge	3L/N/PE;230/400V
Frequency	50/60Hz
THDi	≤3%
Power Factor	0.8 leading to 0.8 lagging
System parameters	
Dimension(W*D*H)	1850*1355*2150
Weight	about 2350kg
STS/Isotransformerr	Option
Design Life	10+Years
Expansion	Support in parallel
Enclosure protection rating	IP54
Cooling	Air cooling
Environment temperature	-20~55°C
Humidity	10%~95%RH
Altitude	<2000m

• Images for reference only, please refer to the actual product images in the order

TG-eBock-160F-241F

Industrial and commercial air-cooled integrated light storage cabinet

- External-mounted inverter design: Compatible with mainstream brand inverters, suitable for all scenarios including new installations,existing facility retrofits, and legacy cabinet upgrades.
- Flexible deployment with rapid scalability: Modular design enables parallel scaling, integrated architecture allows immediate deployment,significantly reducing costs and enhancing efficiency.

TG-eBock-160F-241F

Industrial and commercial air-cooled integrated light storage cabinet

MODEL	TG-eBock-160F	TG-eBock-180F	TG-eBock-200F	TG-eBock-221F	TG-eBock-241F
System Parameter					
system energy	160.768KWh	180.864KWh	200.96KWh	221.096KWh	241.152KWh
Rated Capacity	314Ah				
Output Voltage range	400-584Vdc	450-657Vdc	500-730Vdc	550-803Vdc	600-876Vdc
Factory Voltage	512V-528V	576V-594V	640V-660V	704V-726V	768V-792V
Recommended Voltage at end of Discharge	≤432V	≤486V	≤540V	≤594V	≤648V
Recommended charging voltage	560V	630V	700V	770V	840V
Max Charging Current(Icm)	157A				
Limited Charging Voltage(Ucl)	584V	657V	730V	803V	876V
Max Discharging current	157A				
Discharge Cut-off voltage(Udo)	400V	450V	500V	550V	600V
Inverter	Customers purchase on their own				
Cooling method	air-cooled air conditioning				
Placement environment	Outdoor(Suggest a cool and ventilated place)				
Size	W1200*D1250*H2050mm (Excluding inverter cover)				
Weight	1850±100kg	2000±100kg	2150±100kg	2300±100kg	2450±100kg
Fire Protection System	Have				
protection grade	IP54				
Operating temperature(°C)	charge:0 ~ 55°C/discharge: -20 ~ 50°C				
Relative humidity	0 ~95% (non-condensing)				
Operating altitude	3000m				

- Images for reference only, please refer to the actual product images in the order

TG-eBank-241L/261L

C&I Liquid-Cooling Integrated
ESS Cabinet

- Highly integration: Integrated PCS, MPPT, STS, ATS, and isolation transformers, all optional upon demand.
- High-efficiency heat dissipation; The PACK precision liquid cooling channel design ensures low energy consumption and high efficiency of heat dissipation.
- Long cycle life; Battery charge-discharge cycles>8000; Maximize user benefits.
- Flexible scalability; modular expansion with minimalist parallel processing.
- Extreme safety; "3-level" fire control strategy to prevent thermal propagation and runaway;



TG-eBank-241L/261L C&I Liquid-Cooling Integrated ESS Cabinet

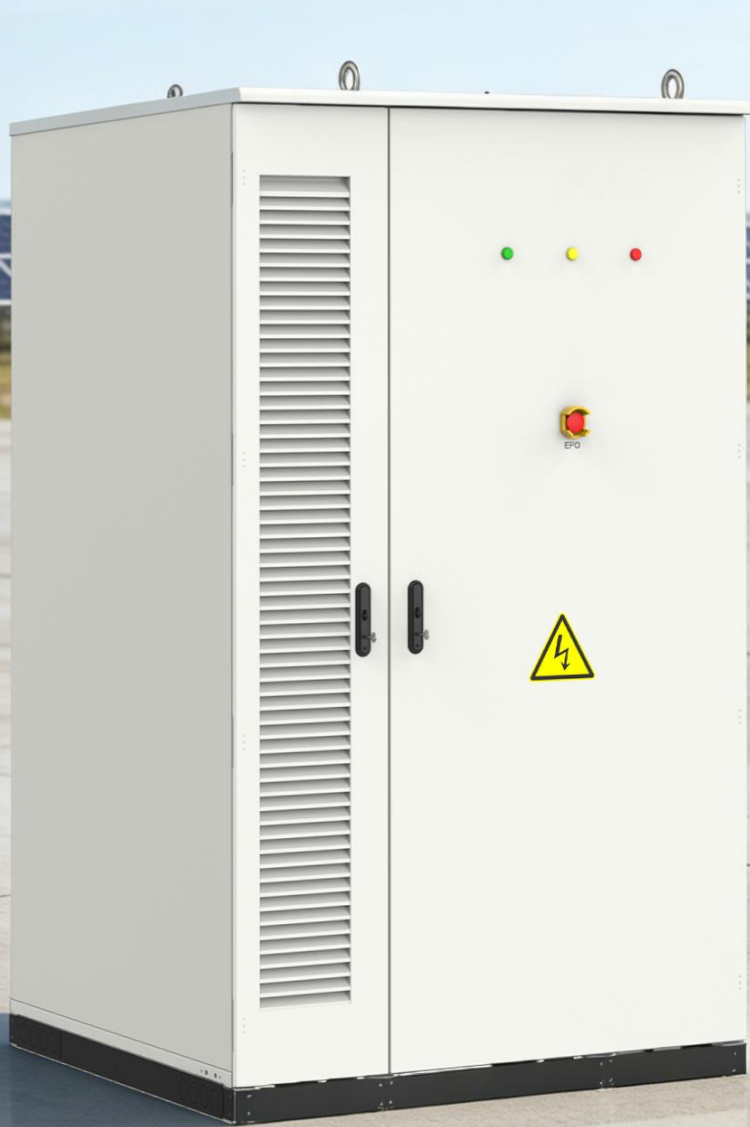
MODEL	TG-eBank-241LS		TG-eBank-261LS
Battery parameters			
Battery packs quantity	5		
Cell capacity	314Ah		
Rated voltage	768V	832V	
Voltage range	600~876V	650~949V	
Rated energy	241kWh	261kWh	
Max.continuous charging/discharge current	157A		
Max.charging current	100%		
Cycle life	6000次@25℃0.5C/0.5C 90%DOD≥70%SOH		
PV parameters			
Max.PV input power	60kW*2		
Rated input voltage	600Vdc		
Max.input voltage	1000Vdc		
MPPT voltage range	150-950V		
PV input current	45A*8		
AC side parameters			
Rated input/output power	110kw	125kw	
Max.input/output power	132kVA	150kVA	
Overload capacity	1.1Pn,lasting for 10 minutes;1.2Pn,lasting for 1 minute		
Max.efficiency	0.989		
Voltage	3/N/PE,400V		
Frequency	50/60Hz		
THDi	≤3%		
Power factor	1 leading to 1 lagging		
System parameters			
Dimension (W*D*H)	1120*1400*2340mm		
Weight	About 2460kg	About 2600kg	
Contact method	CAN/RS485/WiFi		
Design Life	10Years		
Expansion	Support in parallel		
Enclosure protection rating	IP54		
Cooling	PCS air cooling;Battery pack liquid cooling		
Environment temperature	-20~55℃		
Humidity	10%~95%RH		
Altitude	<2000m		

- Images for reference only, please refer to the actual product images in the order

TG-eBlock-417L

Liquid-Cooling DC Battery Cabinet

- SOC error ≤1%, controll charge/discharge depth, delay aging, and enhance BMS energy efficiency with safety assurance
- Supports the implementation of battery balancing strategies to comprehensively enhance battery pack performance ·Digitalized intelligent operation and maintenance management
- DC-side charge/discharge efficiency ≥95%, enhance efficiency through intelligent energy scheduling



TG-eBlock-417L Liquid-Cooling DC Battery Cabinet

MODEL	TG-eBlock-417L
Battery Pack Parameters	
Cell Type	LFP
Cell Capacity	314Ah
PACK Configuration	52.25kWh
PACK Voltage	166.4VDC
PACK Protection Level	IP67
Transport Certificate	UN38.3
PACK Protection	FUSE(PACK)
Pressure Relief Valve	Equipped
Battery Cluster Parameters	
Single Battery Cluster Configuration	417.9kWh
Single Battery Cluster Voltage Range	1164.8~1497.6V
Rated Current	157A
Maximum Continuous Current	200A
Charge and Discharge Efficiency	≥95%
Depth of Discharge	98%DOD
Cluster Level Protection	DC Circuit Breaker+FUSE(BMS)
Cluster Level Lightning Protection	Equipped
System Parameters	
System Configuration	417.9kWh
DC Side Power	208.9kW
Rated Voltage	1331.2VDC
System Voltage Range	1164.8~1497.6V
System Protection Level	IP55
External Communication	Ethernet, RS485
Cloud Platform	Equipped
Noise	75dB@1m
Cooling Method	Liquid Cooling
Operating Temperature Range	-25°C~55°C
Altitude	≤3000m
Relative Humidity	0%~95%RH, No Condensation
PACK Level Fire Fighting	PACK Level Perfluorohexane
System Level Fire Fighting	Perfluorohexane + Water Firefighting (Optional)
Wiring Method	Bottom Entry and Exit Lines
Flammable Gas Detection and Exhaust System	H2 Detection + Explosion-proof Fan
Product Dimensions	1300(W)×1300(D)×2896(H)mm
Equipment Weight	3800kg

• Images for reference only, please refer to the actual product images in the order

TG-PowerStone-30k64E

PowerStone Series Small C&I ESS Cabinet

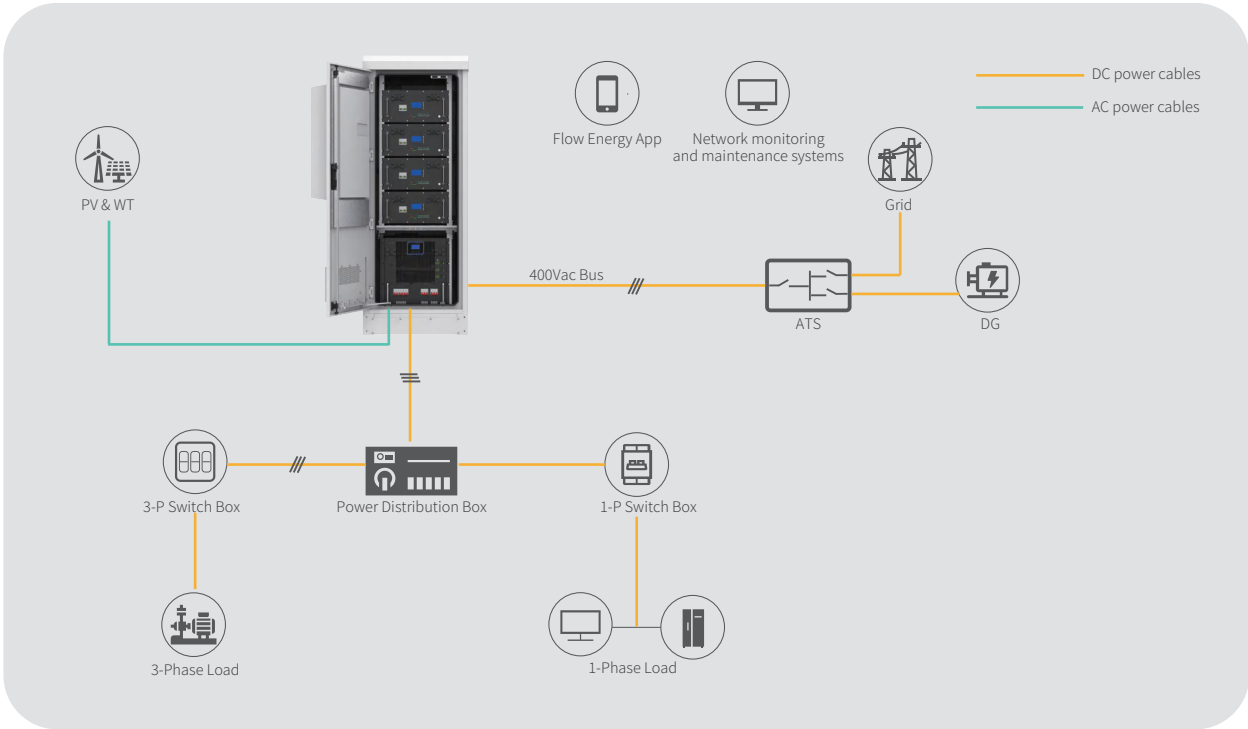
- System-wide integrated solution: A plug-and-play solar-storage-diesel hybrid architecture enables immediate deployment and operation, significantly reducing costs.
- Full-scenario load adaptation: Self-developed three-phase topology supports 100% three-phase unbalance operation without power reduction, delivering full-power output per phase.



TG-PowerStone-30k64E PowerStone Series Small C&I ESS Cabinet

MODEL	TG-PowerStone-33k64E
Battery Parameters	
Battery Type	LFP
Rated Energy	64.3kWh
Rated Voltage	51.2V
Voltage Range	44.8 ~ 57.6V
PV Parameters	
Max.PV Array power	39kW
MPPT Voltage Range	60Vdc ~ 450Vdc
Max.Charging Current	480A(PV+Battery)
AC Side Parameters	
Rated Power	33kW
Rated Grid Voltage &Frequency	AC400V/230V&50/60Hz
Input Voltage Range	295-485VAC(UPS) 156-485VAC(Load Side)
Peak Efficiency	96%
Overload Capacity	60s@105%~110%Load
	10s@110%~140%Load
	5s@≥140%Load
Other Parameters	
Weight	≤650kg
Dimensions (W*D*H)	750*850*2000mm
Cooling Method	Air cooling
Operating Temperature	-20 ~ +55℃
Enclosure Protection Rating	IP54
Fire Protection Configuration	PACK Class+Aerosol

▪ Images for reference only, please refer to the actual product images in the order



TG-ePowerMax-C1440

Solar-ESS-Diesel Integrated Container

- Integrated Turnkey Solution: Prefabricated container delivery with built-in 750kW PCS + 720kW MPPT. High integration, configurable with a 1000kW STS outdoor cabinet for grid/off-grid applications.
- One-Cluster-One-Management: Single PCS corresponds to a single battery cluster, fundamentally resolving issues like circulating currents, uneven currents, and parallel capacitance loss. Deep integration of BMS and PCS reduces costs, improves efficiency, and achieves higher space utilization.

TG-ePowerMax-C1440 Solar-ESS-Diesel Integrated Container

Module	TG-ePowermax-750-1446L
Battery parameters	
Battery packs quantity	30
Cell capacity	314Ah
Rated voltage	768V
Voltage range	600V~876V
Rated energy	1446.912kWh
Max.continuous charging/discharge current	942A
Max.charging current	100%
Cycle life	6000 times @25°C0.5C/0.5C 90%DOD≥70%SOH
PV parameters	
Max.PV input power	720kW
Rated input voltage	600Vdc
Max.input voltage	1000Vdc
MPPTvoltage range	150-950V
PVinput current	45A*32
AC side parameters	
Rated input/output power	750kW
Max.input/output power	900KVA
Overload capacity	1.1Pn,lasting for 10minutes;1.2Pn,lasting for 1 minute
Max.efficiency	98.00%
Voltage	3L/N/PE;400V
Frequency	50/60Hz
THDi	≤3%
Power factor	1 leading to 1 lagging
System parameters	
Dimension(W*D*H)	6058*2438*2591mm
Weight	About 22.5T
Contact method	CAN/RS485/WiFi
Design Life	10 Years
Expansion	/
Enclosure protection rating	IP54
Cooling	Liquid cooling
Environment temperature	-25~60°C(>45°C reduction)
Humidity	10%~95%RH
Altitude	<2000m

Images for reference only, please refer to the actual product images in the order

TG-OFG-4.2KW~6.2KW

TG-OFG-8.2KW~11.2KW

Off-grid Energy Storage Inverter

- Smart Control: Users can freely adjust the charging current and voltage.
- Programmable Operation Modes: Grid-tied mode, off-grid mode, and grid-tied mode with backup power.
- Scalability: Up to 12 units can be connected in parallel.
- Connectivity: Built-in wireless network for easy mobile monitoring, with OTA updates (via Android/iOS apps).



TG-OFG-4.2KW~6.2KW

TG-OFG-8.2KW~11.2KW

Off-grid Energy Storage Inverter

MODEL	TG-OFG-4K2	TG-OFG-6K2	TG-OFG-8K2	TG-OFG-11K2
RATED POWER	4200VA/4200W	6200VA/6200W	8200VA/8200W	11200VA/11200W
INPUT				
Nominal Voltage	230VAC			
Selectable Voltage Range	170-280VAC(UPS) 90-280VAC(Appliances)			
Frequency Range	50/60Hz(Auto Sensing)			
OUTPUT				
Nominal Voltage	230VAC(Settable)			
Surge Power	8400VA	12400VA	16400VA	22400VA
Frequency	50/60Hz			
Peak Efficiency(PV to INV)	96%			
Peak Efficiency(Battery to INV)	93%			
Transfer Time	10ms(UPS) 20ms(Appliances)			
Waveform	Pure Sine Wave			
Overload Protection	60s@105%~110% Load 10s@110%~140% Load 5s@≥140% Load			
BATTERY				
Battery Voltage	48VDC			
Floating Charge Voltage	54VDC			
Overcharge Protection	63VDC			
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximun PV Array Power	5500W	6500W	11000W(5500W×2)	13000W(6500W×2)
Maximun PV Array Open Citcuti Voltage	500VDC			
MPPT Operating Voltage Range	60VDC~450VDC			
Maximun PV Input Current	27A	27A	27A×2	
Maximun Solar Charge Current	100A	120A	140A	160A
Maximun AC Charge Current	80A	100A	120A	140A
Maximun Charge Current(PV+AC)	100A	120A	140A	160A
PHYSICAL				
Product Dimension,D×W×H(mm)	418×300×122	418×300×122	540×410×122	
Packing Dimension,D×W×H(mm)	495×395×215	495×395×215	615×485×215	
Net Weight(kg)	9		14.5	15.5
Communication Interface	RS232/RS485(BMS)/Bluetooth/WiFi/Dry-contact			
Lithium Battery Activation	YES(By PV or Utility)			
Parallel Capacity	YES(12 PCS)		YES(6 PCS)	
OPERATING ENVIRONMENT				
Operating Temperature Range	-10°C~50°C			
Storage temperature	-15°C~60°C			
Humidity	5%~95% Relative Humidity (Non-condensing)			

• Images for reference only, please refer to the actual product images in the order

HPS Solar ESS All-In-One Series

TGH33 (100、120KVA)

- High Integration: Built-in key equipment such as MPPT, PCS, STS, isolation transformer, and EMS (optional). Externally supports simultaneous connection of loads, batteries, the grid or diesel generators, and PV.
- Intelligent Management: Supports multiple operation modes like load priority, battery priority, and peak shaving/valley filling, allowing flexible configuration according to different scenarios.
- Remote Interfaces: Supports remote interfaces such as CAN, RS485, Ethernet, Wi-Fi, and dry contacts.



HPS Solar ESS All-In-One Series TGH33 (100、120KVA)

Model		TGH33100	TGH33120
Rated Capacity [kVA]		100	120
Rated Power [kW]		100	120
Rated Voltage		400V	
AC System		Three-phase five-wire (3W+N+PE)	
Voltage Range		320V~460V	
Rated Output Voltage		400V±1%	
Rated Frequency		50/60Hz	
Frequency Range		45~55/55~65Hz	
Isolation Transformer		Standard Configuration	
Battery Pack Voltage		292~430Vdc	
Number of Battery Cells		104~120 Cells (Lithium Battery)	
Working Mode		Load Priority, Battery Priority, Peak Shaving and Valley Filling	
PV	PV Open-Circuit Voltage	900Vdc	
	MPPT Voltage Range	450~850Vdc	
	PV Maximum Power	3*60kWp	
	MPPT Rated Power	60kW	
	MPPT Startup Voltage	450V	
	PV Maximum Current	3*135A	
Rectification	Number of MPPT	3	
	Input Voltage Range	320V~460V	
	Rated Frequency	50Hz/60Hz(Background Setting)	
Inversion	Frequency Range	50Hz/60Hz ±5Hz	
	Inverter Output Voltage	Three-phase five-wire (3W+N+PE) 400Vac	
	Output Phase Voltage Setting	220-230-240Vac(Background Setting)	
	Output Voltage Accuracy	±1%	
	Voltage Transient Range	±5%	
	Transient Recovery Time	20ms	
	Rated Frequency	50Hz/60Hz±1%(Background Setting)	
	Frequency Tracking Range	50H/60Hz±3 Hz	
	Crest Factor	0.125694444	
	Waveform	Sine Wave	
	Waveform Distortion	≤3% (Linear Load)	
	Voltage Unbalance	±3% (100% Unbalanced Load)	
	Overload	When load rate > 105% and ≤110%: Switch to bypass after 1 hour, automatic recovery after load reduction.	
		When load rate > 110% and ≤125%: Switch to bypass after 10 minutes, automatic recovery after load reduction.	
		When load rate > 125% and ≤150%: Switch to bypass after 1 minute, automatic recovery after load reduction.	
		When load rate > 150% and ≤200%: System shuts down directly after 10 seconds, restart after user confirms load reduction.	
	Short Circuit	System current limiting, shuts down immediately, restart after user confirmation.	
Bypass	Rated Voltage	Three-phase five-wire (3W+N+PE) 400Vac	
	Voltage Range	±20%	
	Rated Frequency	50/60Hz±5Hz	
Battery	Battery Capacity	Configurable	
	Cut-off Discharge Voltage (25°C)	Configurable	
	Charging Current Setting	Lithium Battery: 0.5C (factory setting), 0.05~2.0C (Configurable)	
	Depth of Discharge Setting	Configurable	
Conversion Time	Inverter to Bypass Switching	0 ms	
	Bypass to Inverter Switching	0 ms	
Communication Interface	Remote Control Input	Inverter ON/OFF, Abnormality Clear, Emergency Shutdown	
	Computer Monitoring Port	RS232, RS485, LAN, SNMP (Optional), Wi-Fi (Optional), 4G (Optional)	
	Dry Contact Output12Vdc/250Vac 1A Max	Bypass Input Abnormality, Rectifier Input Abnormality, System Fault, System Alarm, Low Battery Voltage, Output Overload, Fan Fault, Generator ON/OFF (Configurable)	
Environment	Operating Temperature	0~40°C	
	Maximum Relative Humidity	90% (Non-condensing)	
	Maximum Altitude	Rated power at 2000 m (1% power reduction per 100 m elevation increase), max. 4000 m	
Others	Dimensions	850(W)x800(D)x1850(H)mm	
	Unit Weight	900kg	
	Cooling	Forced Ventilation	
	Noise (1m from the unit, value varies with load and temperature)	65 dB	
	Mean Time Between Failures (MTBF)	200,000 h	
	Protection Class (EN60529)	IP20	
	Incoming Line Mode	Bottom Incoming Line	
	Mounting Mode	Cabinet-type Fixed Mounting	

• Images for reference only, please refer to the actual product images in the order

HPS Solar ESS All-In-One Series
TGH33 (150、250KVA)

- Intelligent Management: Supports flexible configuration of multiple operation modes—including Load Priority, Battery Priority, and Peak Shaving/Valley Filling—adaptable to various scenarios.
- High Battery Compatibility: Features robust battery management capabilities and is compatible with multiple BMS protocols.
- Output Isolation: Equipped with a built-in isolation transformer, ensuring equipment electrical safety and strong anti-surge capability.

HPS Solar ESS All-In-One Series TGH33 (150、250KVA)

Model		TGH150	TGH250
Rated Capacity [kVA]		165	275
Rated Power [kW]		150	250
Rated Voltage		400Vac	
AC System		Three-phase five-wire (3W+N+PE)	
Voltage Range		320~460Vac	
Rated Output Voltage		400Vac±1%	
Rated Frequency		50Hz/60Hz	
Frequency Range		45~55Hz/55~65Hz	
Isolation Transformer		Standard Configuration	
Battery Pack Voltage		486~864Vdc	
Number of Battery Cells		180~240 Cells (Lithium Battery)	
Working Mode		Load Priority, Battery Priority, Peak Shaving and Valley Filling	
PV	PV Open-Circuit Voltage	900Vdc	
	MPPT Voltage Range	200~850Vdc	
	PV Maximum Power	3*60kW	
	MPPT Rated Power	60kW	
	MPPT Startup Voltage	250Vdc	
	PV Maximum Current	3*120A	
Rectification	Number of MPPTs	3	
	Input Voltage Range	320~460Vac	
	Rated Frequency	50Hz/60Hz(Background Setting)	
	Frequency Range	50Hz/60Hz ±5Hz	
	Inverter Output Voltage	Three-phase five-wire (3W+N+PE) 400Vac	
	Output Phase Voltage Setting	220Vac/230Vac/240Vac(Background Setting)	
Inversion	Output Voltage Accuracy	±1%	
	Voltage Transient Range	±5%	
	Transient Recovery Time	20ms	
	Rated Frequency	50Hz/60Hz±1%(Background Setting)	
	Frequency Tracking Range	50Hz/60Hz±3 Hz	
	Crest Factor	0.125694444	
	Waveform	Sine Wave	
	Waveform Distortion	≤3% (Linear Load)	
	Voltage Unbalance	±3% (100% Unbalanced Load)	
	Overload	When load rate > 105% and ≤110%: Switch to bypass after 1 hour, automatic recovery after load reduction.	
		When load rate > 110% and ≤125%: Switch to bypass after 10 minutes, automatic recovery after load reduction.	
		When load rate > 125% and ≤150%: Switch to bypass after 1 minute, automatic recovery after load reduction.	
		When load rate > 150% and ≤200%: System shuts down directly after 10 seconds, restart after user confirms load reduction.	
	Short Circuit	When load rate > 200%: System shuts down immediately, restart after user confirms load reduction	
Bypass	Rated Voltage	Three-phase five-wire (3W+N+PE) 400Vac	
	Voltage Range	±20%	
	Rated Frequency	50/60Hz±5Hz	
Battery	Battery Capacity	Configurable	
	Cut-off Discharge Voltage (25°C)	Configurable	
	Charging Current Setting	Lithium Battery: 0.5C (factory setting), 0.05~2.0C (Configurable);	
Conversion Time	Depth of Discharge Setting	Configurable	
	Inverter to Bypass Switching	0 ms	
Communication Interface	Bypass to Inverter Switching	0 ms	
	Remote Control Input	Inverter ON/OFF, Abnormality Clear, Emergency Shutdown	
	Computer Monitoring Port	RS232, RS485, LAN, SNMP (Optional), Wi-Fi (Optional), 4G (Optional)	
	Dry Contact Output12Vdc/250Vac 1A Max	Bypass Input Abnormality, Rectifier Input Abnormality, System Fault, System Alarm, Low Battery Voltage, Output Overload, Fan Fault, Generator ON/OFF (Configurable)	
Environment	Operating Temperature	0~40°C	
	Maximum Relative Humidity	90% (Non-condensing)	
	Maximum Altitude	Rated power at 2000 m (1% power reduction per 100 m elevation increase), max. 4000 m	
Others	Dimensions	1400(W)*800(D)*1800(H)mm	
	Unit Weight	/	
	Cooling	Forced Ventilation	
	Noise (1m from the unit, value varies with load and temperature)	65 dB	
	Mean Time Between Failures (MTBF)	200,000 h	
	Protection Class (EN60529)	IP20	
	Incoming Line Mode	Bottom Incoming Line	
Mounting Mode		Cabinet-type Fixed Mounting	

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C&I Energy Storage Series



Residential Energy Storage Series

