SOLID STATE LITHIUM BATTERY

Leader in Solid State Lithium Battery Industrialization

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C&I Energy Solutions

2026-2027



SOLID STATE LITHIUM BATTERY

About Taico

TAICO Technology Co., Ltd.

TAICO Technology Co., Ltd, established in April 2002, has swiftly evolved into a prominent large-scale manufacturing entity,seamlessly integrating research and development (R&D), design, and production.

Our Services

OEM and ODM Services: We cater to diverse needs by offering Original Equipment Manufacturer (OEM) and Original Design Manufacturer (ODM) services.

Our Core Products

Our portfolio includes home, industrial, and commercial energy storage systems.

Our Strengths

TAICO boasts a technically robust team coupled with a well-trained workforce,experienced technical team,advanced automated production lines, which enhance our efficiency and production stability.
We adhere to the ISO9001 international standards, rigorously controlling every stage of the production process. TAICO has achieved

three major certification systems:

ISO9001: Quality Management System
ISO14001: Environmental Management System
ISO45001: Occupational Health and Safety Management System
These certifications demonstrate our compliance with applicable quality, environmental, and occupational health and safety management standards.

International Certifications

Our products meet international standards, having secured certifications such as:CE / RoHS Compliance / UN38.3 Test Report / SDS(MSDS) / UL / IEC. These certifications assure our products' safety, environmental protection, and reliability at an international level.

Future Goals

TAICO is committed to becoming a renowned brand in the battery industry within the next 10 years and aims to lead the new energy sector within 20 years. Upholding the values of "customers first, teamwork, honesty and trustworthiness,and active hard work," we are dedicated to pursuing excellence and innovation, making relentless efforts toward realizing the green energy dream.

2002 Years
Founded

8+ worldwide warehouses

20000 m²
square meter factory

6 GW
Capacity of production

150+
Number of employees

Global Footprints
120+



Overseas branches



Contents

Energy Storage Container

TKE-Cube A1000&A1500 (500kW) ····· 05
TKE-Cube A1500 (1000kW) &A2000 ····· 07
TKE-Cube A2570 ····· 09
500kW/2500kW/4000kW ····· 11

Battery storage system

TK E-Cube R100-ROCK 4 series ····· 13
TK E-Cube R100-ROCK 8 series ····· 15
TK E-Cube R200-ROCK 4 series ····· 17
TK E-Cube R200-ROCK 8 series ····· 19
TK E-Cube R100P ····· 21
TK E-Cube R200P ····· 27

All-in-one System

TK E-Cube A100 ····· 29
TK E-Cube A200 ····· 31
Photovoltaic MPPT ····· 33

Rack Energy Storage System

TK E-Cube H series ····· 35
TK E-Cube W series ····· 37

Application Case Showcase ····· 39

Typical Application Scenarios ····· 41

SOLUTIONS ENERGY STORAGE

TAICO
SOLID STATE LITHIUM BATTERY

50 kW-500 kW 100 kWh-5 MWh

TKS E-Cube A100

TKS E-Cube R100P

TKS E-Cube R200P

TKS E-Cube A1500

TKS E-Cube R100-ROCK 4

TK E-Cube H60-W

TK E-Cube H40

TKS E-Cube A1000&A1500 Energy Storage container

500kW/1028kWh Hybrid ESS ; 500kW/1543kWh Hybrid ESS

The containerized hybrid energy storage system is an integrated energy solution that highly integrates the battery system, PCS (power converter), energy management system (EMS), and temperature control and fire protection system into a standard container. It supports dual-mode operation of on-grid and off-grid, and which is suitable for industrial and commercial energy storage, microgrids, and off-grid power supply scenarios. It features the integration of three electrical systems and AC/DC integration, with simple on-site installation and wiring.

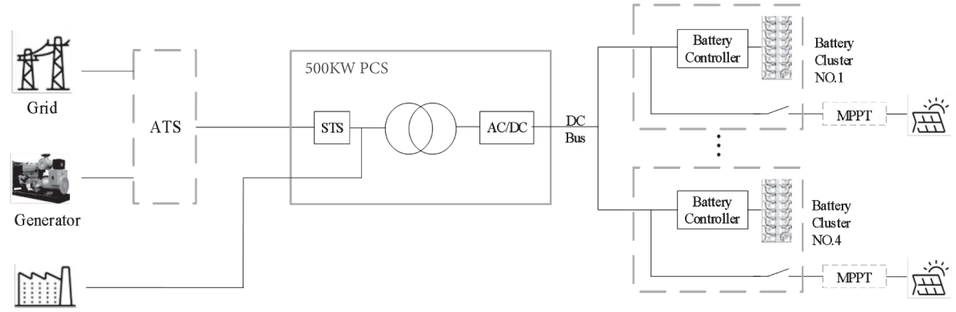


Features and Advantages

- Standard 20-foot high-cube container.
- The on-site wiring is simple: integrating the AC side and the DC side, three-electricity integration, intelligent storage in one, and it can be used by simply connecting to the power grid and the load on site.
- Standard configuration with intelligent switch of on-grid and off-grid modes and isolated transformer.
- The integrated PV DC input interface is connected to the external MPPT.

Specification parameter

Model		TKS E- Cube A1000 500 kW /1028 kWh	TKS E- Cube A1500 500kW/1543 kWh
DC side	Cell type	LFP314 Ah	
	Charge/Discharge C-rate	≤0.5C	
	Pack capacity and configuration	16.077 kWh/1P16S	
	Battery capacity and Pack quantity	1028kWh/4*16	1543kWh/6*16
	Max. PV input power	8*120 kW	12*120 kW
AC side	Rated voltage	400V	
	Rated frequency	50/60HZ	
	Rated power	500 kW	
	Rated current	722A	
	Hybrid switching time	<20ms	
AC side (On-grid)	THDi	<3%	
	Power factor	>0.99	
AC side (Off-grid)	THDu	<3%(Linear load)	
System	Weight	<15t	<20t
	Dimensions（L×D×H）	6058 × 2438 × 2896 mm	
	Operating temperature	-30 ~ 55℃（Derating use over 40℃）	
	IP grade	IP54	
	Cooling concept	Smart air cooling	



TKS E-Cube A1500&A2000 Energy Storage container

1000kW/1543kWh Hybrid ESS ; 1000kW/2058kWh Hybrid ESS

The containerized hybrid energy storage system is an integrated energy solution that highly integrates the battery system, PCS (power converter), energy management system (EMS), and temperature control and fire protection system into a standard container. It supports dual-mode operation of on-grid and off-grid, and which is suitable for industrial and commercial energy storage, microgrids, and off-grid power supply scenarios. It features the integration of three electrical systems and AC/DC integration, with simple on-site installation and wiring.

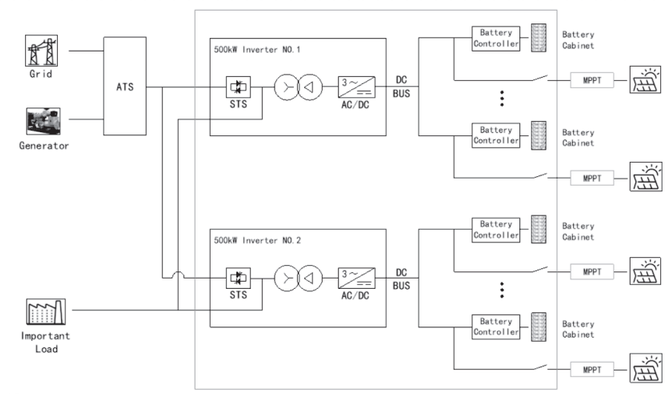


Features and Advantages

- Standard 40-foot high-cube container.
- The on-site wiring is simple: integrating the AC side and the DC side, three-electricity integration, intelligent storage in one, and it can be used by simply connecting to the power grid and the load on site.
- Standard configuration with intelligent switch of on-grid and off-grid modes and isolated transformer.
- The integrated PV DC input interface is connected to the external MPPT.

Specification parameter

Model		TKS E- Cube A1500 1000KW/1543KWH	TKS E- Cube A2000 1000KW/2058KWH
DC side	Cell type	LFP314Ah	
	Charge/Discharge C-rate	≤0.5C	
	Pack capacity and configuration	16.077kWh/1P16S	
	Battery capacity and Pack quantity	1543kWh/6*16	2058kWh/8*16
	Max. PV input power	12*120kW	16*120kW
AC side	Rated voltage	400V	
	Rated frequency	50/60HZ	
	Rated power	1000kW	
	Rated current	1444A	
	Hybrid switching time	<20ms	
AC side (On-grid)	THDi	<3%	
	Power factor	>0.99	
AC side (Off-grid)	THDu	<3%(Linear load)	
System	Weight	<21t	<26t
	Dimensions（L×D×H）	12192× 2438 × 2896mm	
	Operating temperature	-30 ~ 55℃（Derating use over 40℃）	
	IP grade	IP54	
	Cooling concept	Smart air cooling	



20-foot Containerized ESS (optional):
- 1500kW/1028kWh Hybrid ESS
- 500kW/1543kWh Hybrid ESS

40-foot Containerized ESS (optional):
- 1000kW/1543kWh Hybrid ESS
- 1000kW/2058kWh Hybrid ESS

TKS E-Cube A2570

Energy Storage container

2570 kWh Containerized BESS（Battery DC side）

The basic components of the containerized battery energy storage system: high-voltage box, battery clusters consisting of 16 battery packs (10 clusters in total), BMS system, cooling system, fire-fighting system, auxiliary power supply system, Communication system.

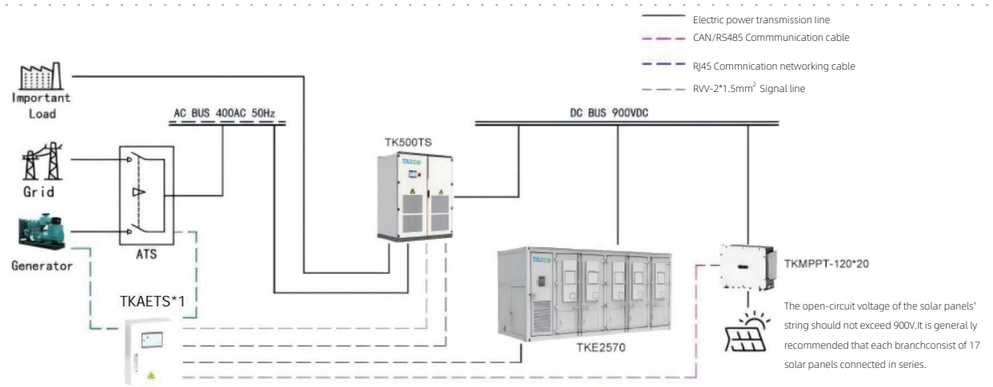


Features and Advantages

- Refined thermal management results in small temperature differences between battery cells and longer lifespan.
- Adopting photovoltaic DC coupling and external MPPT for higher charging efficiency of battery.
- Integrated design of photovoltaic access ports and high-voltage boxes leads to a superior system.

Specification parameter

Model		TKS E- Cube A2570
DC Battery	Cell type	LFP 314Ah
	Battery Pack capacity and configuration	16.077 kWh/1P16S
	Battery capacity and number of Packs	2570 kWh/10x16
	Charge/discharge ratio	≤0. 5C
	Depth of discharge	95%
	Cycle index	8000cls（0.5P，25±2℃，@70%SOH）
	Number of temperature sensors	1280
Inverter DC side	Rated current	157A*10
	Rated power	1285 kW
	Number of input branches	20 channels (Each cluster can be optionally equipped with 2 PV MPPT controllers)
	Rated current	168 Ax20 channels
	Rated power	120 kWx20 channels
System	Factory SOC set value	30%-50%
	Battery voltage range	716.8 V~921.6 V
	Rated voltage	819.2 V
	Operating temperature	-30～ 55℃ (Derating use over 40 ℃)
	Relative humidity	0 ~95% RH， no condensing
	Dimensions (W × D × H)	6058 × 2438 × 2896 mm
	Weights	<26 T
	IP grade	Container（IP54）
	Noise	<70dB
	Cooling method	Air cooling
Other parameters	Related certificates	UN38.3 / Transportation Hazard Report / Classification Society Certification



2500kW/4000kW Transformer and Power Converter System Battery AC side）

Features and Advantages

- Four-quadrant operation, with battery charge and discharge management function and operation modes such as VSG, VF, PQ, etc.
- Parallel operation of hundreds of MW off-grid and independent participation in black start of power grid.
- Interacting with BMS and EMS supports multiple protection of system.
- It is equipped with primary frequency modulation and rapid dispatching functions for power sources, grids and loads, and supports rapid power response.
- Integrated design of converter and transformer, which is easy and convenient to install.



500kW

2500kW / 4000kW

500kW Hybrid Energy Storage Inverter

- The equipment supports multiple units being used in parallel.
- It has the functions of grid-connected charging and discharging, and off-grid independent inverter.
- Standard equipped with STS module, supporting automatic switching between on-grid and off-grid modes.
- Standard isolated transformer is equipped, with strong shock resistance.

Specification parameter

Model		2500 kW	4000 kW
DC side	Input branches	2	4
	Max. Input current	2*1935A	4*1935A
	Input voltage range	700~950V	
AC side	Rated voltage	400V	
	Rated frequency	50/60HZ	
	Rated power	2500 kW	4000 kW
	Rated current	3609 A	5774 A
	Transformer Turns ratio	400/480	
	Vector group Designation	DyN11	
AC side（On-grid）	THDi	<3%	
	Power factor	>0.99	
AC side（Off-grid）	THDu	<3%(Linear load)	
System	Dimensions（L×D×H）	6058 × 2438 × 289 6mm	12192 × 2438 × 2896 mm
	Weight	<15t	<26t
	Operating temperature	-30～55℃（Derating use over 40℃）	
	IP grade	IP54	
	Cooling concept	Smart air cooling	

Model		500 kW
DC side	Voltage range	500-850 V
	Max current	1128 A
AC side	Voltage Range	400 V
	Rated current	722 A
	Rated Frequency	50/60Hz
	Rated power	500 kW
	Capacity of transformer	500 kVA
	Connection method	3W+N+PE
	Hybrid switching time	<20ms
AC side（On-grid）	THDi	<3%
	Power factor	>0.99
AC side（Off-grid）	THDu	<3%(Linear load)
System	Max. efficiency	97.5%
	Weight	2700 kg
	Dimensions（L×D×H）	1600 x 1050 x 2050 mm
	Operating temperature	-30～55℃（Derating use over 40℃）
	IP grade	IP21
	Communication	BMS（CAN）/EMS（TCP/IP）

TKS E-Cube R100-ROCK 4 series

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

High-voltage box

Battery Module



Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

Safe & Reliable
DC electric circuit safety protection
Multi level battery protection / Fire suppression system

Plug and Play
Complete pre-delivery testing
Easy to maintain

High Capacity
Maximum 177kWh Capacity;
314Ah battery with high energy density.

Smart BMS
16S passive equalization BMU
does not require EMS system configuration

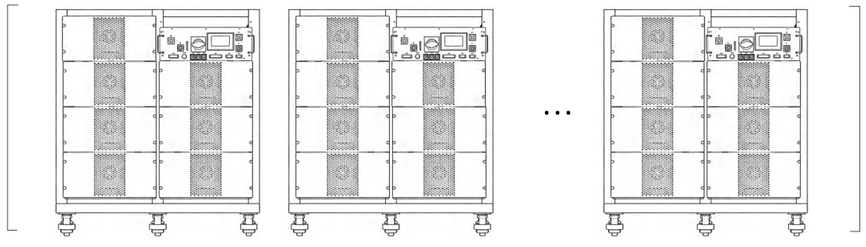
Highly Integrated
Modular design, minimal footprint
Easy to transport and install

TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model	TKS E-cube R100-112	TKS E-cube R100-161	TKS E-cube R100-177
System Energy	112 kWh	161 kWh	177 kWh
System Nominal Voltage	358.4 V	512 V	563.2 V
System Operating Voltage	302.4-408 V	432-584 V	475.2-642.4 V
Charge/Discharge Current	≤0.5C		
Working Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C		
High-Voltage Box Rated Current	100/200 A		
Module Energy (kWh)	16.076 kWh		
Module Nominal Voltage	51.2 V		
Module Capacity	314 Ah		
Number of Battery Modules in Series	7	10	11
Inverter Rated output power	30/50/60/80 kW		
Rated Voltage	220/380 V, 230/400 V (3L+N+PE)		
Power Factor	Adjustable from 0.8 leading to 0.8 lagging		
Rated Frequency	50/60 Hz		
Cycle Life	≥8000		
Wooden box size (W/D/H) (Estimated size)	530 x 725 x 1160.5 mm X 2	530 x 725 x 1160.5 mm X 3	530 x 725 x 1160.5 mm X 3
Gross weight (Estimated weight)	962 kg	1676 kg	1914 kg
Installation Location	Rack-Mounted		
Storage Temperature	0°C~35°C		
Discharge rate	95%DC		
IP Rating of Enclosure	IP21		
Cell Chemistry	Solid-State Lithium Cell		
Optional inverter brands	TAICO/DEYE/GROWATT/SOLIS		

Supports up to 10 units operating in parallel.



10 units

121 kWh

161 kWh

177 kWh

TKS E-Cube R100 -ROCK 8 series

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

Safe & Reliable
DC electric circuit safety protection
Multi level battery protection / Fire suppression system

Plug and Play
Complete pre-delivery testing
Easy to maintain

High Capacity
Maximum 160kWh Capacity;
314Ah battery with high energy density.

Smart BMS
16S passive equalization BMU
does not require EMS system configuration

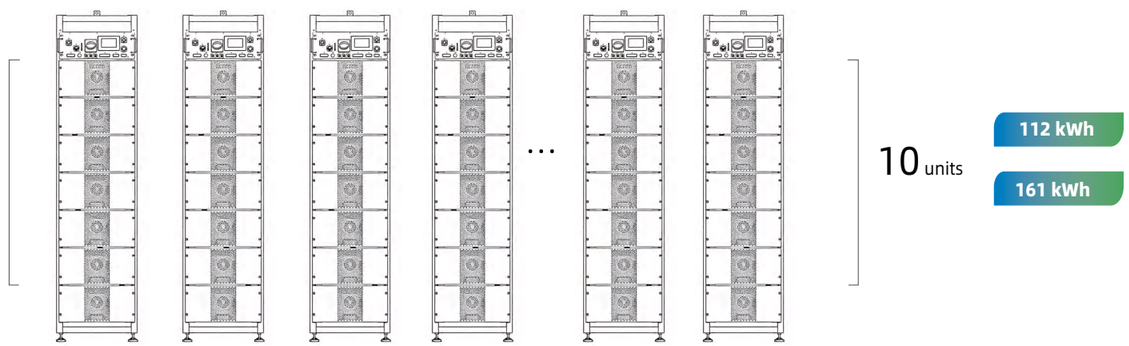
Highly Integrated
Modular design, minimal footprint
Easy to transport and install

TAICO SOLID LITHIUM BATTERY

Specification parameter

Model	TKS E-cube R100-112	TKS E-cube R100-160
System Energy	112 kWh	161 kWh
Module Nominal Voltage	358.4 V	512 V
System Operating Voltage	302.4-408 V	432-584 V
Charge/Discharge Current	≤0.5C	
Working Temperature	Charge: 0℃ to 55℃; Discharge: -20℃ to 55℃	
High-Voltage Box Rated Current	100/200 A	
Module Energy (kWh)	16.076 kWh	
System Nominal Voltage	51.2 V	
Module Capacity	314 Ah	
Number of Battery Modules in Series	7	10
Inverter Rated output power	30/50/60/80 kW	
Rated Voltage	220/380 V, 230/400 V (3L+N+PE)	
Power Factor	Adjustable from 0.8 leading to 0.8 lagging	
Rated Frequency	50/60 Hz	
Cycle Life	≥8000	
Wooden box size (W/D/H) (Estimated size)	530 x 725 x 2093.5mm	530 x 725 x 2093.5mmX2
Gross weight (Estimated weight)	1036 kg	1493 kg
Installation Location	Rack Mounting	
Storage Temperature	0℃~35℃	
Discharge rate	95%DC	
IP Rating of Enclosure	IP21	
Cell Chemistry	Solid-State Lithium Cell	
Optional inverter brands	TAICO/DEYE/GROWATT/SOLIS	

Supports up to 10 units operating in parallel.



TKS E-Cube R200 -ROCK 4 series

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Battery Module

High-voltage box



Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

Safe & Reliable
DC electric circuit safety protection
Multi level battery protection / Fire suppression system

Plug and Play
Complete pre-delivery testing
Easy to maintain

High Capacity
Maximum 241kWh Capacity;
314Ah battery with high energy density.

Smart BMS
16S passive equalization BMU
does not require EMS system configuration

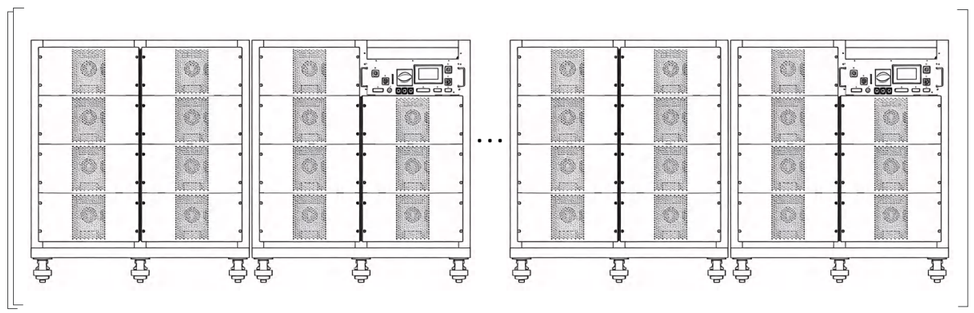
Highly Integrated
Modular design, minimal footprint
Easy to transport and install

TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model	TKS E-cube R200-193	TKS E-cube R200-208	TKS E-cube R200-225	TKS E-cube R200-241
System Energy	193 kWh	208 kWh	225 kWh	241 kWh
System Nominal Voltage	614.4 V	665.6 V	716.8 V	768 V
System Operating Voltage	518.4-700.8 V	561.6-759.2 V	604.8-817.6 V	648-876 V
Charge/Discharge Current	≤0.5C			
Working Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C			
High-Voltage Box Rated Current	100/200 A			
Module Energy (kWh)	16.076 kWh			
Module Nominal Voltage	51.2 V			
Module Capacity	314 Ah			
Number of Battery Modules in Series	12	13	14	15
Inverter Rated output power	50/60/80/100/125 KW			
Rated Voltage	220/380V,230/400V(3L+N+PE)			
Power Factor	Adjustable from 0.8 leading to 0.8 lagging			
Rated Frequency	50/60 Hz			
Cycle Life	≥8000			
Wooden box size (W/D/H) (Estimated size)	530 x 725 x 1160.5mm X3	530 x 725 x 1160.5mm X4	530 x 725 x 1400.5mm X 4	530 x 725 x 1400.5mm X 4
Gross weight (Estimated weight)	2152kg	2390kg	2628kg	2866kg
Installation Location	Rack-Mounted			
Storage Temperature	0°C~35°C			
Discharge rate	95%DC			
IP Rating of Enclosure	IP21			
Cell Chemistry	Solid-State Lithium Cell			
Optional inverter brands	TAICO/DEYE/GROWATT/SOLIS			

Supports up to 10 units operating in parallel.



10 units

2080 kWh

2250 kWh

2410 kWh

TKS E-Cube R200 -ROCK 8 series

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

Safe & Reliable
DC electric circuit safety protection
Multi level battery protection / Fire suppression system

Plug and Play
Complete pre-delivery testing
Easy to maintain

High Capacity
Maximum 241kWh Capacity;
314Ah battery with high energy density.

Smart BMS
16S passive equalization BMU
does not require EMS system configuration

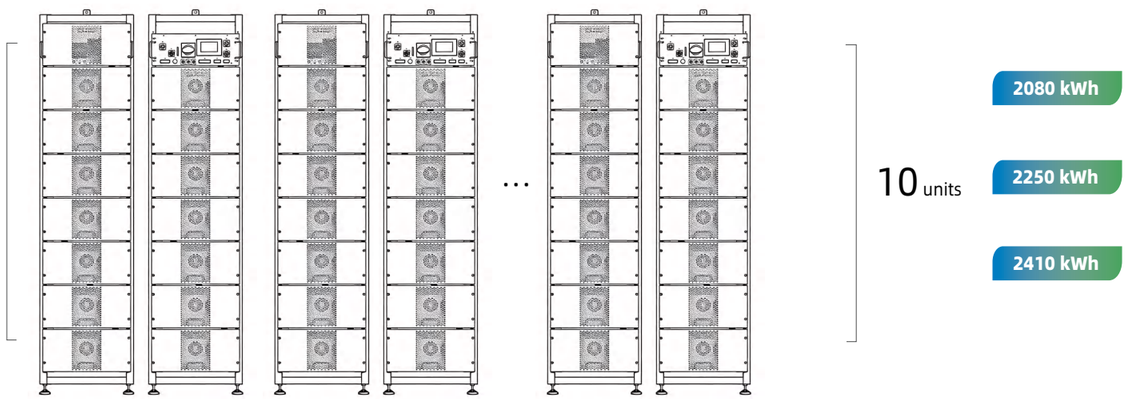
Highly Integrated
Modular design, minimal footprint
Easy to transport and install

TAICO SOLID LITHIUM BATTERY

Specification parameter

Model	TKS E-cube R200-208	TKS E-cube R200-225	TKS E-cube R200-241
System Energy	208 kWh	225 kWh	241 kWh
System Nominal Voltage	665.6 V	716.8 V	768 V
System Operating Voltage	561.6-759.2 V	604.8-817.6 V	648-876 V
Charge/Discharge Current	≤0.5C		
Working Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C		
High-Voltage Box Rated Current	100/200 A		
Module Energy (kWh)	16.076 kWh		
Module Nominal Voltage	51.2 V		
Module Capacity	314 Ah		
Number of Battery Modules in Series	13	14	15
Inverter Rated output power	50/60/80/100/125 KW		
Rated Voltage	220/380V,230/400V(3L+N+PE)		
Power Factor	Adjustable from 0.8 leading to 0.8 lagging		
Rated Frequency	50/60 Hz		
Cycle Life	≥8000		
Wooden box size (W/D/H) (Estimated size)	530 x 725 x 2093.5 mmx2	530 x 725 x 2093.5 mmx2	530 x 725 x 2093.5 mmx2
Gross weight (Estimated weight)	1731kg	1850kg	1969kg
Installation Location	Rack-Mounted		
Storage Temperature	0°C~35°C		
Depth of Discharge (DoD)	95%		
IP Rating of Enclosure	IP21		
Cell Chemistry	Solid-State Lithium Cell		
Optional inverter brands	TAICO/DEYE/GROWATT/SOLIS		

Supports up to 10 units operating in parallel.



TKS E-Cube R100P-112

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

High Capacity
Maxium 112kWh Capacity;
314Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi level battery protectionFire suppression system

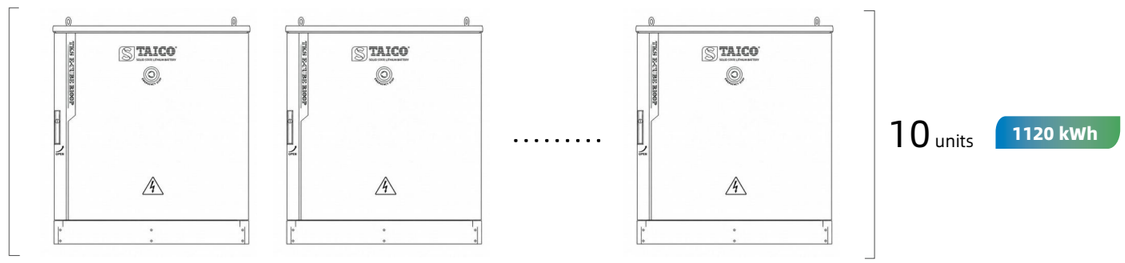
Smart BMS
16S passive equalization BMU
does not require EMS system configuration

TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E-cube R100P-112
Battery parameters	Celltype Battery	Solid-state 314 Ah
	Pack capacity and configuration	16.076kWh/ 1P16S
	Pack quantity	7
	Battery capacity	112 kWh
	System Nominal Voltage	358.4 V
	Battery voltage range	302.4V-408.8 V
	Charge and discharge rate	≤0.5C
	discharge rate	95%DC
	Discharge depth Number of cycles	≥8000
Inverter parameters	PV String Input Data	
	Max. DC Input Power (W)	65000
	Max. DC Input Voltage (V)	1000
	MPPT Range (V)	150-850
	Max. Input Current (A)	36+36+36+36
	AC Output Data	
	Rated AC Output Power (W)	50000
	Max. AC Output Power (KVA)	55000
	AC Output Rated Current (A)	75.8/72.5
	Max. AC Output Rated Current (A)	83.4/79.7
	Max. Three-phase Unbalanced Output Current	83.3
	Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
	Grid Type	Three Phase
	Total Harmonic Distortion (THD)	<3% (of nominal power)
System Specification	Anti Corrosion Level	Standard: C3, customizable up to C4
	Waterproof grade	IP54
	Size (L/H/D) (L: Including 70mm hanging hook) (D: 200mm including air conditioner)	1142X1342X1200mm
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS

Supports up to 10 units operating in parallel.



SOLID STATE LITHIUM BATTERY

TKS E-Cube R100P-128&144&160

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

High Capacity
Maxium 160kWh Capacity;
314Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi level battery protectionFire
suppression system

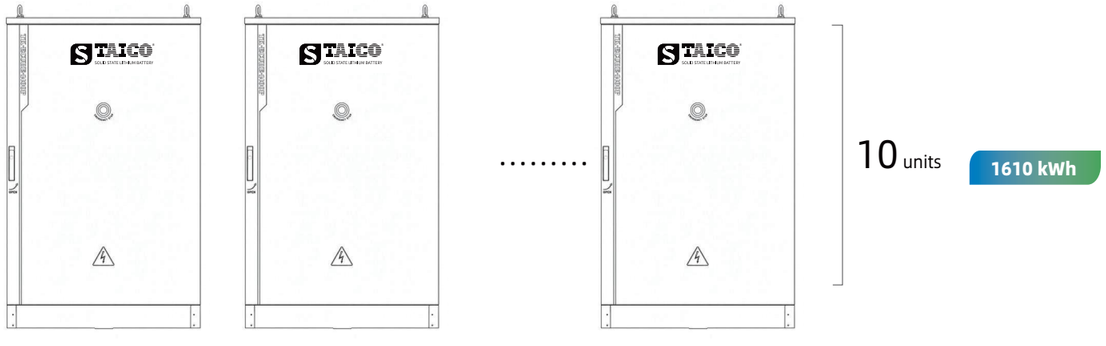
Smart BMS
16S passive equalization BMU
does not require EMS system configuration

SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E-cube R100P -128	TKS E-cube R100P -144	TKS E-cube R100P -160
Battery parameters	Cell type Battery	Solid-state 314Ah		
	Pack capacity and configuration	16.076kWh/ 1P16S		
	Pack quantity	8	9	10
	Battery capacity	128KWH	144KWH	160KWH
	System Nominal Voltage	409.6V	460.8V	512V
	Battery voltage range	345.6-476.2V	388.8-525.6V	432-584V
	Charge and discharge rate	≤0.5C		
	discharge rate	95%DC		
	Discharge depth Number of cycles	≥8000		
Inverter parameters	PV String Input Data			
	Max. DC Input Power (W)	65000		
	Max. DC Input Voltage (V)	1000		
	MPPT Range (V)	150-850		
	Max. Input Current (A)	36+36+36+36		
	AC Output Data			
	Rated AC Output Power (W)	50000		
	Max. AC Output Power (KVA)	55000		
	AC Output Rated Current (A)	75.8/72.5		
	Max. AC Output Rated Current (A)	83.4/79.7		
	Max. Three-phase Unbalanced Output Current	83.3		
	Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac		
	Grid Type	Three Phase		
	Total Harmonic Distortion (THD)	<3% (of nominal power)		
System Specification	Anti Corrosion Level	Standard: C3, customozable up to C4		
	Waterproof grade	IP54		
	Size (L/H/D) (L: Including 70mm hanging hook) (D: 200mm including air conditioner)	1142X1862X1279Xmm		
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS		

Supports up to 10 units operating in parallel.



TKS E-Cube R100P-176&196

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

High Capacity
Maxium 196kWh Capacity;
314Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi level battery protectionFire suppression system

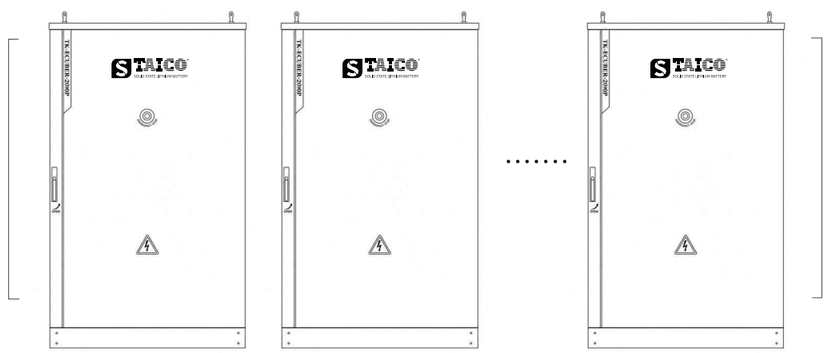
Smart BMS
16S passive equalization BMU
does not require EMS system configuration

TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E-cube R100P-176	TKS E-cube R100P-196
Battery parameters	Celltype Battery	Solid-state 314Ah	
	Pack capacity and configuration	16.076kWh/ 1P16S	
	Pack quantity	11	12
	Battery capacity	176.8kWh	192.9kWh
	System Nominal Voltage	563.2V	614.4V
	Battery voltage range	475.2-642.4V	518.4-700.8V
	Charge and discharge rate	≤0.5C	
	discharge rate	95%DC	
	Discharge depth Number of cycles	≥8000	
Inverter parameters	PV String Input Data		
	Max. DC Input Power (W)	240000	
	Max. DC Input Voltage (V)	1000	
	MPPT Range (V)	150-950	
	Max. Input Current (A)	10*42	
	AC Output Data		
	Rated AC Output Power (W)	125000	
	Max. AC Output Power (KVA)	125000	
	Rated Grid Output Current (A)	180.4A/189.9A	
	Adjustable power factor	0.8 leading to 0.8 lagging	
	Nominal AC voltage/range	50/60Hz	
	Nominal AC grid frequency/range	220/380,230/400Vac	
	Grid Type	Three Phase	
	Total Harmonic Distortion (THD)	<3% (of nominal power)	
System Specification	Anti Corrosion Level	Standard: C3, customozable up to C4	
	Waterproof grade	IP54	
	Size (L/H/D) (H: Including 70mm hanging hook) (D: 200mm including air conditioner)	1142X2073X1200mm	
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS	

Supports up to 10 units operating in parallel.



SOLID STATE LITHIUM BATTERY

TKS E-Cube R200P-208&225&241

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

High Capacity
Maximum 241kWh Capacity;
314Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi-level battery protection /
Fire suppression system

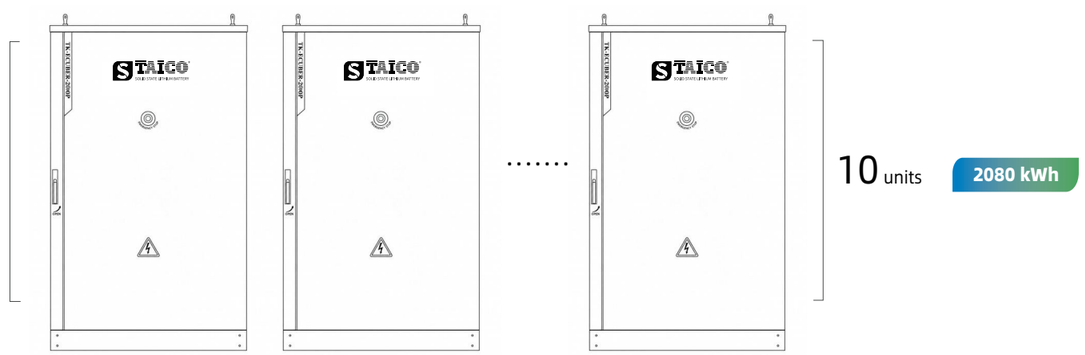
Smart BMS
16S passive equalization BMU
does not require EMS system configuration

SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E-cube R200P-208	TKS E-cube R200P-225	TKS E-cube R200P-241
Battery parameters	Celltype Battery	Solid-state 314Ah		
	Pack capacity and configuration	16.076kWh/ 1P16S		
	Pack quantity	13	14	15
	Battery capacity	208 kWh	225 kWh	241 kWh
	System Nominal Voltage	665.6 V	716.8 V	768 V
	Battery voltage range	561.6-759.2 V	604.8-817.6 V	648-876 V
	Charge and discharge rate	≤0.5C		
	discharge rate	95%DC		
	Discharge depth Number of cycles	≥8000		
Inverter parameters	PV String Input Data			
	Max. DC Input Power (W)	240000		
	Max. DC Input Voltage (V)	1000		
	MPPT Range (V)	150-950		
	Max. Input Current (A)	10*42		
	AC Output Data			
	Rated AC Output Power (W)	125000		
	Max. AC Output Power (KVA)	125000		
	Rated Grid Output Current (A)	180.4A/189.9A		
	Adjustable power factor	0.8 leading to 0.8 lagging		
	Nominal AC voltage/range	50/60Hz		
	Nominal AC grid frequency/range	220/380,230/400Vac		
	Grid Type	Three Phase		
	Total Harmonic Distortion (THD)	<3% (of nominal power)		
System Specification	Anti Corrosion Level	Standard: C3, customizable up to C4		
	Waterproof grade	IP54		
	Size (L/H/D) (L: Including 70mm hanging hook) (D: 200mm including air conditioner)	1142 x 2073 x 1200 mm	1150 x 2366 x 1260 mm	
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS		

Supports up to 10 units operating in parallel.



SOLID STATE LITHIUM BATTERY

TKS E-Cube R200P-261

Battery storage system



Highly Adaptable

TAICO Deye GROWATT solis

Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

High Capacity
Maximum 261kWh Capacity;
314Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi-level battery protection /
Fire suppression system

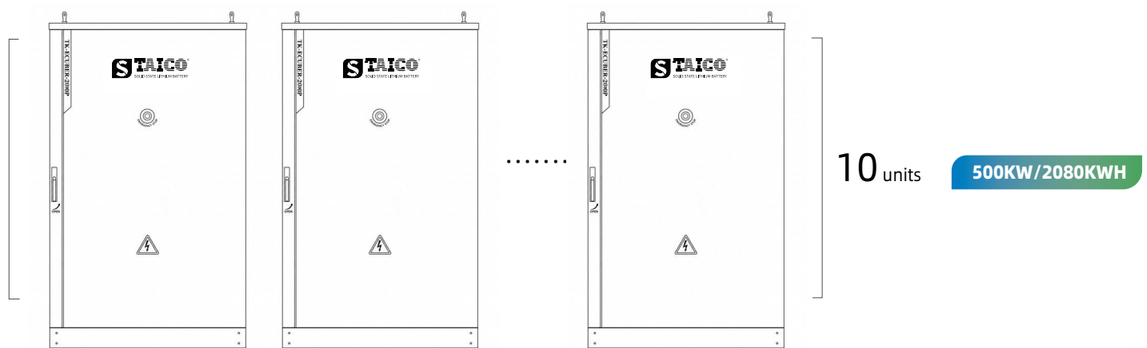
Smart BMS
20S passive equalization BMU
does not require EMS system configuration

SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E-cube R200P-261
Battery parameters	Celltype Battery	Solid-state 314Ah
	Pack capacity and configuration	20.096 kWh/1P20S
	Pack quantity	13
	Battery capacity	261 kWh
	System Nominal Voltage	832 V
	Battery voltage range	691.2-921.6 V
	Charge and discharge rate	≤0.5C
	discharge rate	95%DC
	Discharge depth Number of cycles	≥8000
Inverter parameters	PV String Input Data	
	Max. DC Input Power (W)	250000
	Max. DC Input Voltage (V)	1000
	MPPT Range (V)	150-950
	Max. Input Current (A)	10*42
	AC Output Data	
	Rated AC Output Power (W)	125000
	Max. AC Output Power (KVA)	125000
	Rated Grid Output Current (A)	180.4A/189.9A
	Adjustable power factor	0.8 leading to 0.8 lagging
	Nominal AC voltage/range	50/60Hz
	Nominal AC grid frequency/range	220/380,230/400Vac
	Grid Type	Three Phase
	Total Harmonic Distortion (THD)	<3% (of nominal power)
System Specification	Anti Corrosion Level	Standard: C3, customizable up to C4
	Waterproof grade	IP54
	Size (L/H/D) (L: Including 70mm hanging hook) (D: 200mm including air conditioner)	/
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS

Supports up to 10 units operating in parallel.



TKS E-Cube A100 All-in-one ESS

Features and Advantages

Solid Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

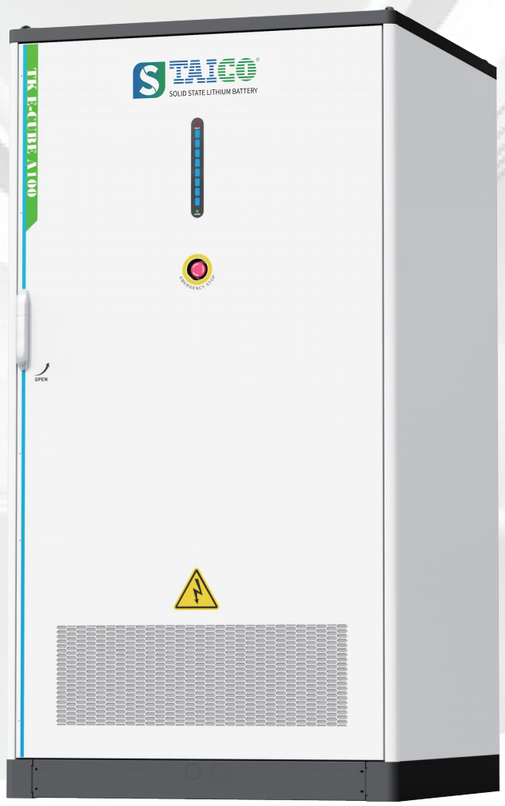
High Capacity
Maximum 112kWh Capacity;
280/314 Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi level battery protectionFire
suppression system

Smart BMS
16S passive equalization BMU
does not require EMS system configuration

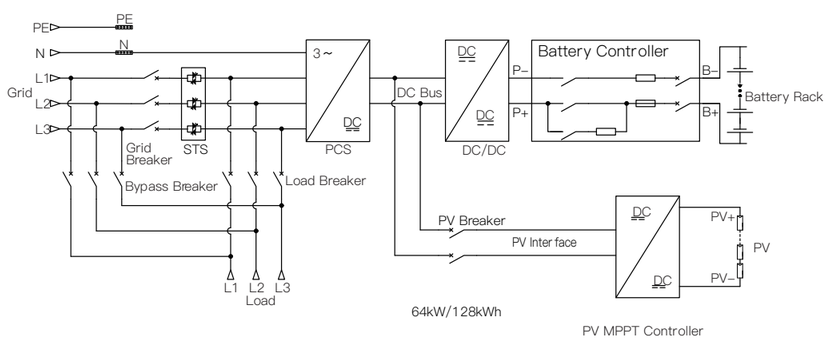


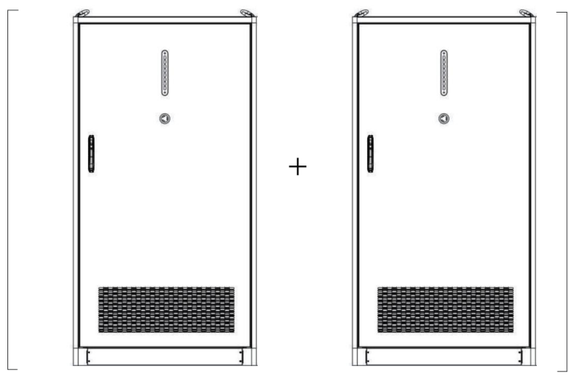
TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E-CubeA100 50 kW/100 kWh	
DC Battery Parameters	Cell type	LFP3.2V280 Ah	LFP3.2V314 Ah
	Battery module capacity and configuration	14.336 kWh/1P16S	16.077 kWh/1P16S
	Max Battery Power and module quantity	100 kWh/7	112 kWh/7
	Battery voltage range	313.6 V ~403.2 V	359 V~461 V
	Rated charge/discharge rate and current	0.5C, 140 A	0.5C,157 A
	Maximum charging and discharging	280 A	
	Number of cycles	>8000	
DC PV Parameters	Max input power	100 kW	
	Maximum photovoltaic array voltage	900 V	
	MPPT voltage range	200 V-820 V	
	Full load MPPT voltage range	530 V-820 V	
	Maximum branch current	20A	
	Enter the number of PV branches	8	
	MPPT quantity	4	
	Max input current	160A	
AC PCS Parameter (On grid)	AC Rate Power	50 kW	64 kW
	AC Max Power	55 kW	70.4 kW
	System voltage standard	3W+N+PE	
	Voltage range	360VAC~440VAC	
	Frequency range	45~55Hz/55~65Hz	
AC PCS Parameter (Off grid)	Rate Output Power	50 kW	64 kW
	Max Single Phase Output Rate	30 kW	
	Rate Output Voltage	400 V	
	Rated Output Frequency	50/60Hz	
Off-grid switching and switch configuration	STS Unit	250 A /100kW	
	Switching time	<20ms	
System Parameter	Working temperature	-30~55 ℃	
	Dimensions (length*width*height)	1050 x 1050 x2050 mm	
	Weight	1350 Kg	1450 Kg
	Protect Level	IP54	
	Noise	<70dB	
	Networking form	4G/Wifi/Ethernet	
	Fire protection	Aerosol	
	Display	LCD Touch Screen	

The basic components of the battery box: battery cluster, Inverter System and communication system.





2 units

Supports up to 2
units operating in parallel.

100KW/200KWH

128KW/224KWH

TKS E-Cube A200 All-in-one ESS

Features and Advantages

Solid-State Lithium Cell
Even the Battery Is Pierced,
No Explosion, No Fire

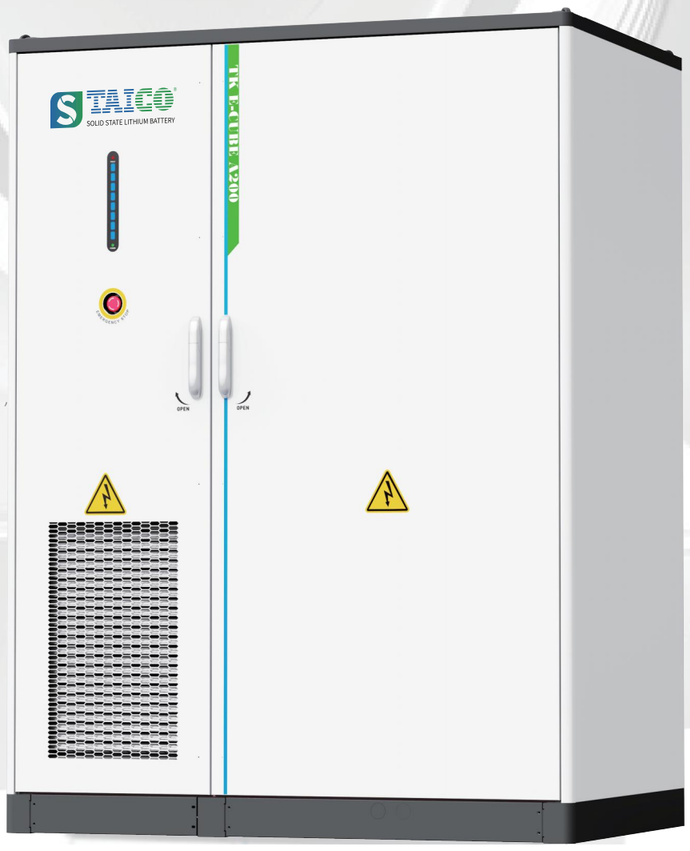
High Capacity
Maximum 241kWh Capacity;
280/314Ah battery with high energy density.

Plug and Play
Complete pre-delivery testing
Easy to maintain

Highly Integrated
Modular design, minimal footprint
Easy to transport and install

Safe & Reliable
DC electric circuit safety protection
Multi level battery protectionFire
suppression system

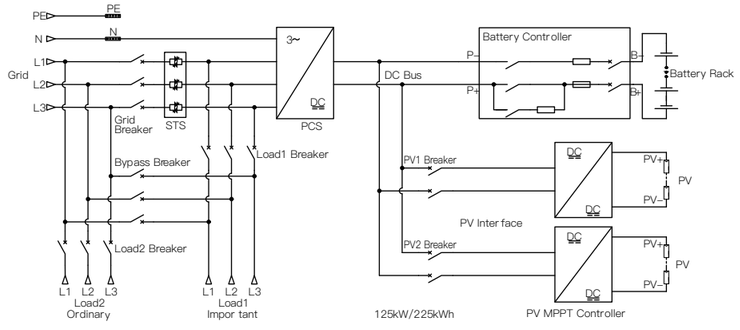
Smart BMS
16S passive equalization BMU
does not require EMS system configuration

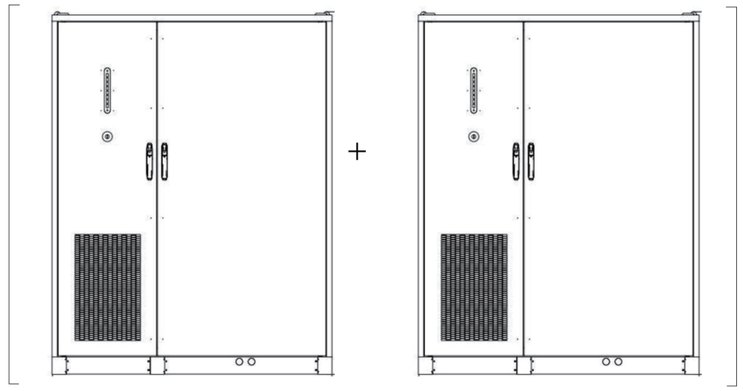


TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TKS E- Cube A200 100 kW/200 kWh	TKS E-Cube A200 100kW/225 kWh	TKS E-CubeA200 125 kW/241 kWh
DC Battery Parameters	Cell type	LFP3.2V280 Ah	LFP3.2V314 Ah	LFP3.2V314 Ah
	Battery module capacity and configuration	14.336 kWh/1P16S	16.077 kWh/1P16S	
	Max Battery Power and module quantity	200 kWh/14	225 kWh/14	241 kWh/15
	Battery voltage range	627.2 V~806.4 V		672V-864 V
	Rated charge/discharge rate and current	0.5C, 140 A	0.5C, 157 A	
	Maximum charging and discharging	280 A	314 A	
	Number of cycles	>8000		
DC PV Parameters	Max input power	200 kW		
	Maximum photovoltaic array voltage	900 V		
	MPPT voltage range	200 V-820 V		
	Full load MpPT voltage range	530 V		
	Maximum branch current	20 A		
	Enter the number of PV branches	8		
	MPPT quantity	4		
	Max input current	320		
AC PCS Parameter (On grid)	AC Rate Power	100 kW		125 kW
	AC Max Power	110 kW		137 kW
	System voltage standard	3W+N+PE		
	Voltage range	360VAC~440VAC		
	Frequency range	45~55Hz/55~65Hz		
AC PCS Parameter (Off grid)	Rate Output Power	100 kW		125 kW
	Max Single Phase Output Rate	33 kW		41 kW
	Rate Output Voltage	400 V		
	Rated Output Frequency	50/60Hz		
Off-grid switching and switch configuration	STS Unit	<20ms		
	Switching time	>90%		
System Parameter	Working temperature	-30~55℃		
	Dimensions (length*width*height)	1600 x1050 x 2050 mm		1600 x 1050 x 2350 mm
	Weight	2320 Kg		2600 Kg
	Protect Level	IP54		
	Noise	<70dB		
	Networking form	4G/Wifi/Ethernet		
	Fire protection	Aerosol		
	Display	LCD Touch Screen		





2 units

Supports up to 2
units operating in parallel.

200KW/400 kWh

200KW/450 kWh

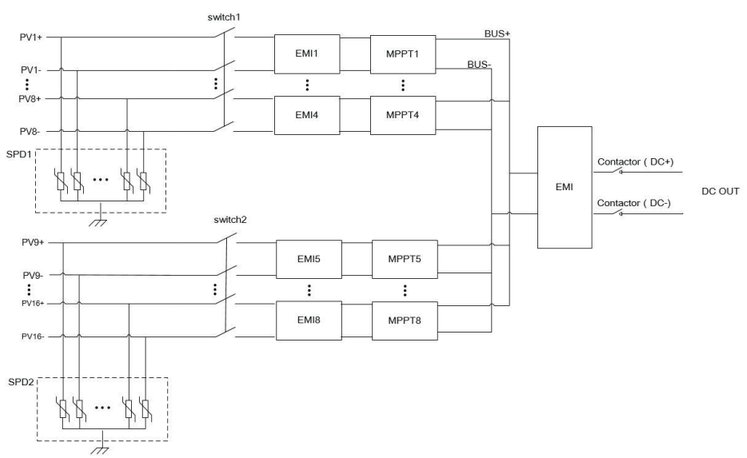
250KW/482 kWh

Photovoltaic MPPT controller

Features and Advantages

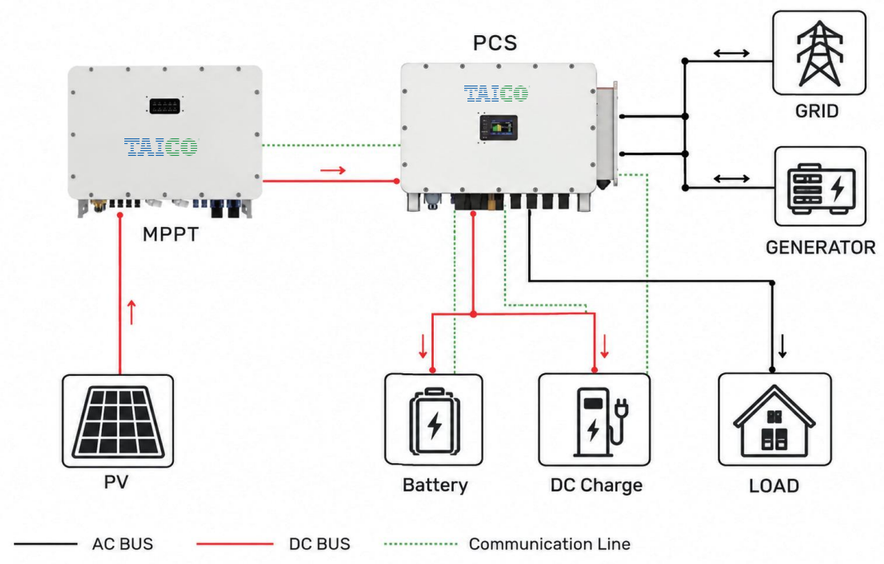
- Wall-mounted installation
- Battery voltage is unaffected by photovoltaic configuration (boost/buck converter)
- Multi-channel photovoltaic input to accommodate multi-angle installation requirements of solar panels,wide DC voltage
- Range input(200-1000V)
- high conversion efficiency (99.26%)
- High protection rating(IP65)





Specification parameter

Parameter	TK200HAPV	TK150HAPV
PV parameter		
Power rating	200 kW	150 kW
PV open circuit voltage	200V- 1000V	
MPPT voltage range	200V-900V	
Rated voltage	700V	700V
Starting voltage	250V	
Number of Input Channels	Route16	Route12
Maximum PV Current	36A*8	36A*6
Short-circuit current	39.6A*8	39.6A*6
High-pressure side parameters		
Voltage range	400V-950V	
Rated voltage	700V	
Maximum current	280A	210A
System Core Parameters		
Communication Port	EMS: 485; Battery: CAN or 485	
DIDO	DI: 4 channels / DO: 4 channels	
Maximal efficiency	99.26%	
Power dissipation	Standby: <15 W / No load: <100 W	
Levels of protection	IP 65	
Size	W * H * D:780*738*272 mm	
Weight	60 kg	
Temperature range	-30 to 60 °C (use with reduced capacity when temperatures exceed 45 °C)	
Humidity	5 ~95%	
Cooling-down method	Intelligent forced air cooling	
Height	4000 m (use with reduced capacity for distances above 2000 m)	
Protect	Overtemperature protection, overcurrent protection, overvoltage protection, ground short-circuit	

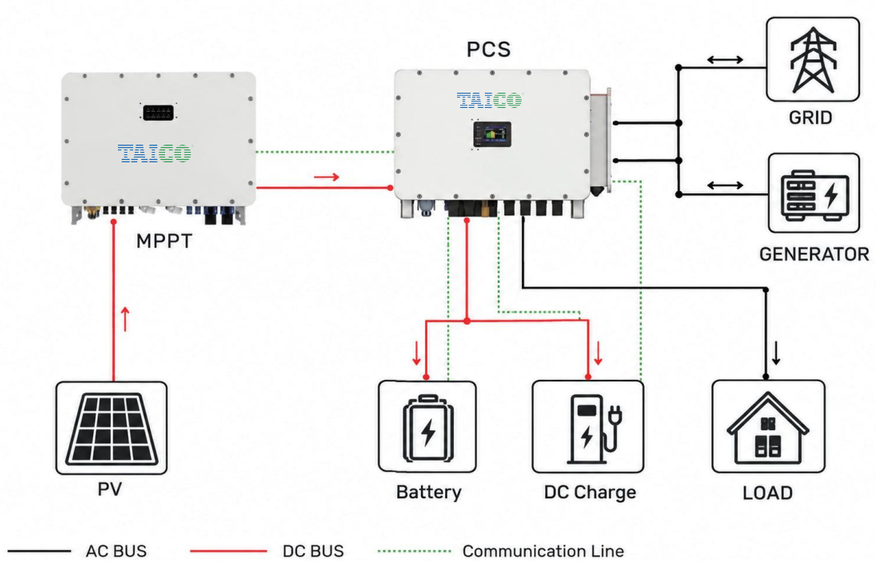


TK135HAPSS Microgrid Power Conversion System (PCS)

Features and Advantages

- Network-configured inverter
- 125% overload capacity
- High protection level (IP65)
- Seamless transition feature (built-in STS)
- Hybrid mode for the engine
- Three-phase independent grid-tie control technology
- Wall-mounted
- Built-in ATS dual AC input module.





TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Battery Parameter Values	
Maximum Battery Voltage	950 V
Lowest Battery Voltage	600 V
Rated battery voltage range	600 V - 950 V
Maximum Battery Current	255 A
AC Side (Grid Connection)	
Power rating	135 kVA
Rated current	196 A
Maximum bypass current	196 A
Rated grid voltage	400 V / 230 V
Grid Voltage Range	-20% to +15%
Grid Frequency Range	50 Hz (47-52 Hz) or 60 Hz (57-62 Hz)
Current harmonics	<3% (above 30% load)
Power factor	-1 to 1
AC Side (Off-grid)	
Output rating	135 kVA
Maximum output	148.5 kVA
Maximum output current	216 A
Rated voltage	400 V / 230 V
Output Voltage Harmonics	<3% (resistive load)
Degree of unbalancedness	100%
Output Overload	1.1 times long-term / 1.25 times, 60 seconds per cycle. 35-fold increase in duration: 100 ms (@ <35°C)
System Parameter	
Way to install	Wall mounting type
Maximal efficiency	98.1%
Power dissipation	Standby: <15 W / No load: <200 W
Levels of protection	IP65
Size	W * L * H: 770 * 970 * 362 mm
Weight	Approx. 85 kg
Temperature range	-30 to 60°C (derating above 45°C)
Humidity	5 - 95%
Cooling-down method	Smart Air Cooling
Height	4000 m (derating above 2000 m)

TK E-Cube H series Battery storage system

Features and Advantages

High Safety LFP
LFP & smart BMS

Expandable
Capacity up to 76.8kWh per cluster

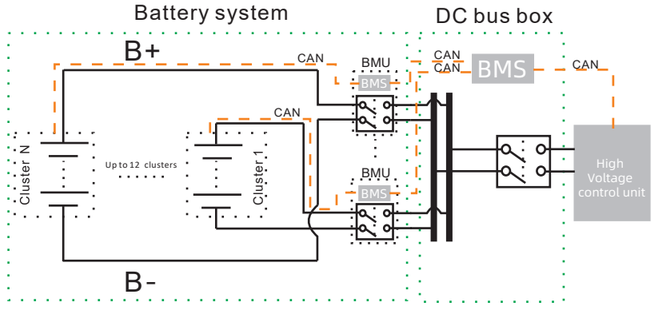
Tailor-made Cabinet
Suitable for multi-module installation

High Voltage
High system efficiency

Wide Application
Cover all needs in commercial fields

Highly Adaptable
TAICO Deye GROWATT solis





TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TK E-Cube H25	TK E-Cube H30	TK E-Cube H35	TK E-Cube H40	TK E-Cube H50	TK E-Cube H60
Module Energy (kWh)		5.12 kWh					
Module Nominal Voltage		51.2 V					
Module Capacity		100 Ah					
Battery Module Qty In Series(Optional)		5	6	7	8	10	12
System Nominal Voltage		256 V	307.2 V	358.4 V	409.6 V	512 V	614.4 V
System Operating Voltage		220 V~292 V	264 V~350.4 V	308 V~408.8 V	352 V~467.2 V	440 V~584 V	528 V~700.8 V
System Energy		25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	51.2 kWh	61.44 kWh
System Usable Energy		23.04 kWh	27.65 kWh	32.26 kWh	36.86 kWh	46.08 kWh	55.3 kWh
Rated DC Power		25.6 kW	30.72 kW	35.84 kW	40.96 kW	51.2 kW	55.3 kW
Charge/Discharge Current	Recommend	50 A					
	Nominal	100 A					
	Peak Discharge (2 mins, 25°C)	125 A					
Working Temperature		Charge:0~55/Discharge:-20°C~55°C					
Communication Port		CAN2.0/RS485					
Humidity		5%~85%RH					
Altitude		≤3500m					
Cycle Life		≥6000					
Dimension (W/D/H) (Size for initial assessment)		545 x 580 x 1530 mm				1090 x 550 x 1530 mm	
Weight Approximate		290kg	335kg	380kg	425kg	515kg	605kg
Installation Location		Rack Mounting					
Storage Temperature		0°C~35°C					
Recommend Depth of Discharge		90%					
IP Rating of Enclosure		IP20					
Cell Chemistry		LiFePO4					
Inverter		20KW/30KW/50KW					
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS					

TK E-Cube W series

Battery storage system

Features and Advantages

High Safety LFP
LFP & smart BMS

Expandable
Capacity up to 76.8kWh per cluster

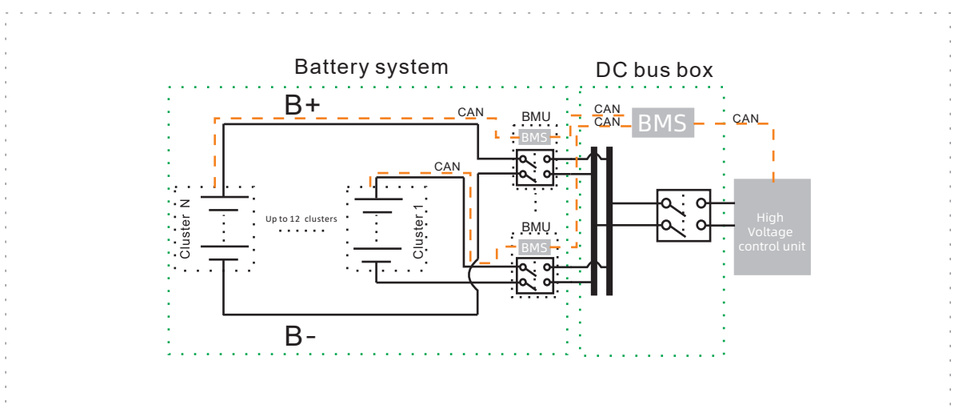
Tailor-made Cabinet
Suitable for multi-module installation

High Voltage
High system efficiency

Wide Application
Cover all needs in commercial fields

Highly Adaptable
TAICO Deye GROWATT solis



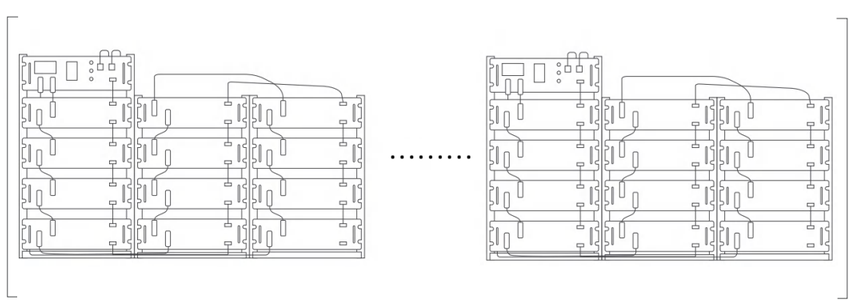


TAICO SOLID STATE LITHIUM BATTERY

Specification parameter

Model		TK E-Cube H60-W	TK E-Cube H100-W	TK E-Cube H200-241
Module Energy (kWh)		5.12 kWh	10.24 kWh	16.076 kWh
Module Nominal Voltage		51.2V	51.2 V	51.2 V
Module Capacity		100 Ah	200 Ah	314 Ah
Battery Module Qty In Series(Optional)		10	12	15
System Nominal Voltage		512 V	614.4 V	768 V
System Operating Voltage		448 V~576 V	537.6V~691.2 V	648-876 V
System Energy		61.44 kWh	102.4 kWh	241 kWh
System Usable Energy		55.3 kWh	97.28 kWh	97.28 kWh
Rated DC Power		61.44 kW	102.4 kW	241 kW
Charge/Discharge Current	Recommend	50 A	100 A	100 A
	Nominal	100 A	150 A	150 A
	Peak Discharge (2 mins, 25℃)	125 A	200 A	200 A
Working Temperature		Charge:0℃~55℃/Discharge:-20℃~55℃		
Communication Port		CAN2.0/RS485		
Humidity		5%~85%RH		
Altitude		≤3500m		
Cycle Life		≥6000		≥8000
Installation Location		Rack Mounting		
Storage Temperature		0℃~35℃		
Recommend Depth of Discharge		90%		
IP Rating of Enclosure		IP20		
Cell Chemistry		LiFePO4		
Inverter		50KW/80KW/100KW/125KW		
Optional inverter brands		TAICO/DEYE/GROWATT/SOLIS		

Supports up to 10 units operating in parallel.



Application Case Showcase

Kenya 2.058 MWh Solar Microgrid Project

PV: 800kW

Inverter:500 kW

BESS:2.058 MWh

Project Type: Hospital



Yemen 900kWh Solar Microgrid Project

PV: 240 kW

Inverter: 250 kW

BESS:900 kWh

Project Type: For Factory's Own Use



Madagascar 900 kWh Solar Microgrid Project

PV: 234 kW

Inverter:500 kW

BESS:900 kWh

Project Type: hotel



Cyprus 6.17 MWh Solar Microgrid Project

PV: 1.2 MW

Inverter: 2 MW

BESS:6.17 MWh

Project Type: For Factory's Own Use



Nigeria 2.059 MWh Solar Microgrid Project

PV: 800 kW

Inverter:250 kW

BESS:2.059 MWh

Project Type: School



India 1.028 MWh Solar Microgrid Project

PV: 480 kW

Inverter:500 kW

BESS:1.028 MWh

Project Type: Data Center



Typical Application Scenarios

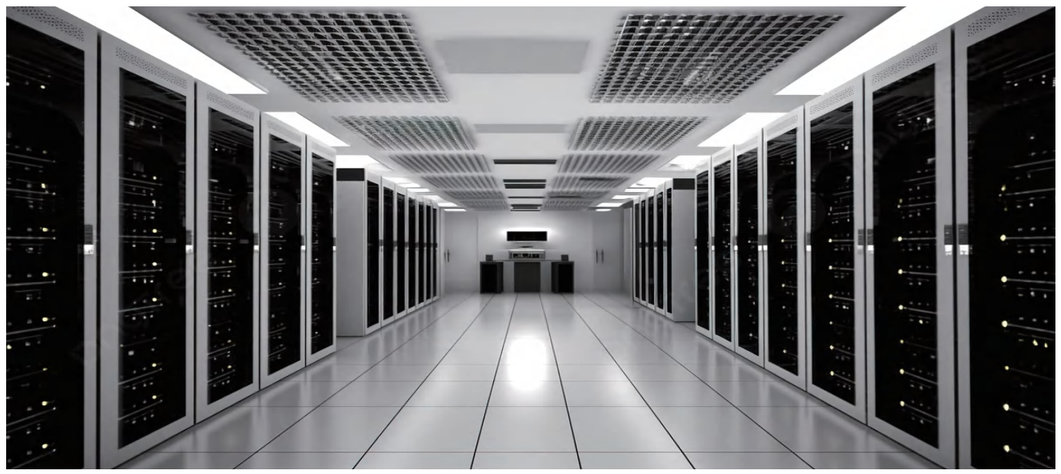
High Energy Consumption Industry + Energy Storage

Energy-intensive industries typically operate around the clock and consume large amounts of electricity, resulting in high demand charges and energy costs. Energy storage systems can reduce electricity expenses through peak shaving and load shifting, while lowering maximum demand and capacity charges. They can also reduce the need for costly grid capacity expansion as power demand grows.



Data Center + Energy Storage

Integrating an energy storage system with a data center can improve power supply reliability and help protect critical operations during grid outages or power fluctuations. Through peak shaving, load management and backup power support, energy storage can also improve energy efficiency and reduce electricity costs



Photovoltaic + Energy Storage + Charging Station

The combination of photovoltaic generation, energy storage and EV charging provides an integrated energy solution for charging stations. Energy storage can absorb surplus photovoltaic energy, reduce peak grid demand and improve the local consumption of renewable energy. It can also support high-power EV charging while reducing the impact of charging loads on the grid.



Energy Storage + Microgrid

A microgrid integrates distributed generation, energy storage, loads and an energy management system into a controllable local power network. With energy storage, the microgrid can improve power supply stability, increase renewable energy utilization and support both grid-connected and off-grid operation. It is particularly suitable for islands, remote areas and locations with weak or unreliable grid infrastructure.

