

Shanghai, China (Headquarters)
Huizhou, China (Production base)

Shenzhen, China (Sales Center)
Sydney, Australia (Sales Center)



Huizhou Tianchen Shangneng Technology Co.,Ltd

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TCSN Power Technology (Shenzhen) Co., Ltd

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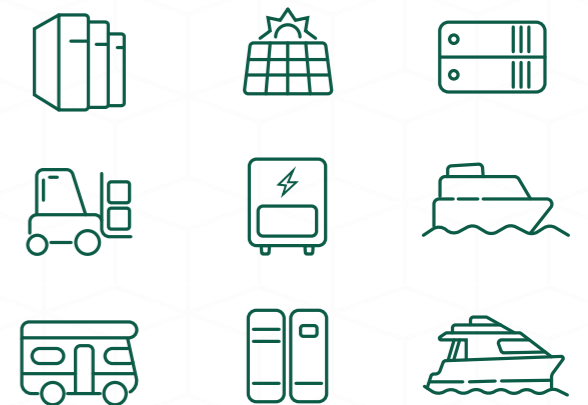
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TCSN POWER

PRODUCT CATALOG

Empowering Excellence:
Innovative and Sustainable Energy Solutions for A Green World



ABOUT US

Huizhou Tianchen Shangneng Technology Co., Ltd. is a high-tech enterprise focusing on the research and development, manufacturing and production of lithium-ion batteries and their systems.

The company specializes in the production of prismatic high charge/discharge rate and long-cycle lithium iron phosphate batteries and their associated systems. These products are widely used in energy storage, UPS (data center), special power, communication as well as many other sectors.

Headquartered in Shanghai, the company has two production bases in Huizhou and two sales centers in Shenzhen & Sydney.

The company has significant capability in research, development, and manufacturing, specialising in cell, BMS management system, lithium-ion battery system and inverter technology.

The company has ISO9001, ISO14001 and ISO45001 management systems certification, and the products have passed UL, FCC, CE, CB, UN, RoHs, Reach and other certifications.

The company has more than 30 patents and has subnational experience in the renewable energy industry. TCSN products are highly reliability, can be designed for high charge/discharge rates, are built with both quality and economics considered. TCSN products are well received both domestically and internationally.

I CORPORATE CULTURE

We are a passionate team committed to corporate responsibility. We respect science, treat nature with care, and advocate for continuous learning and exploration. Our focus is on professional development, attentive service, consumer cooperation, and mutual benefit. We strive to serve every user and partner with top-quality products and genuine service. Our goal is to give back to both society and the renewable industry through mutual benefit and information sharing.

We are dedicated to achieving clean energy goals. We advocate for both carbon zero and carbon neutral, through engineering and design. We value learning, innovation, and cooperation to ensure we meet customer needs swiftly and effectively.

I FOCUS/PROFESSIONAL

Our main product focus is on LiFePO4 battery manufacturing.

TCSN power has accelerated innovation on many Lithium Iron Phosphate/LiFePO4 technologies, such as products for EV, RV & Caravan, Marine, Motorcycle, Golf Cart/Trolley, UPS, Solar storage, Medical, Floor scrubber, Industrial, and Commercial applications.

60+

Number of R&D

200+

Employees

3GWh+

Annual Production Capacity

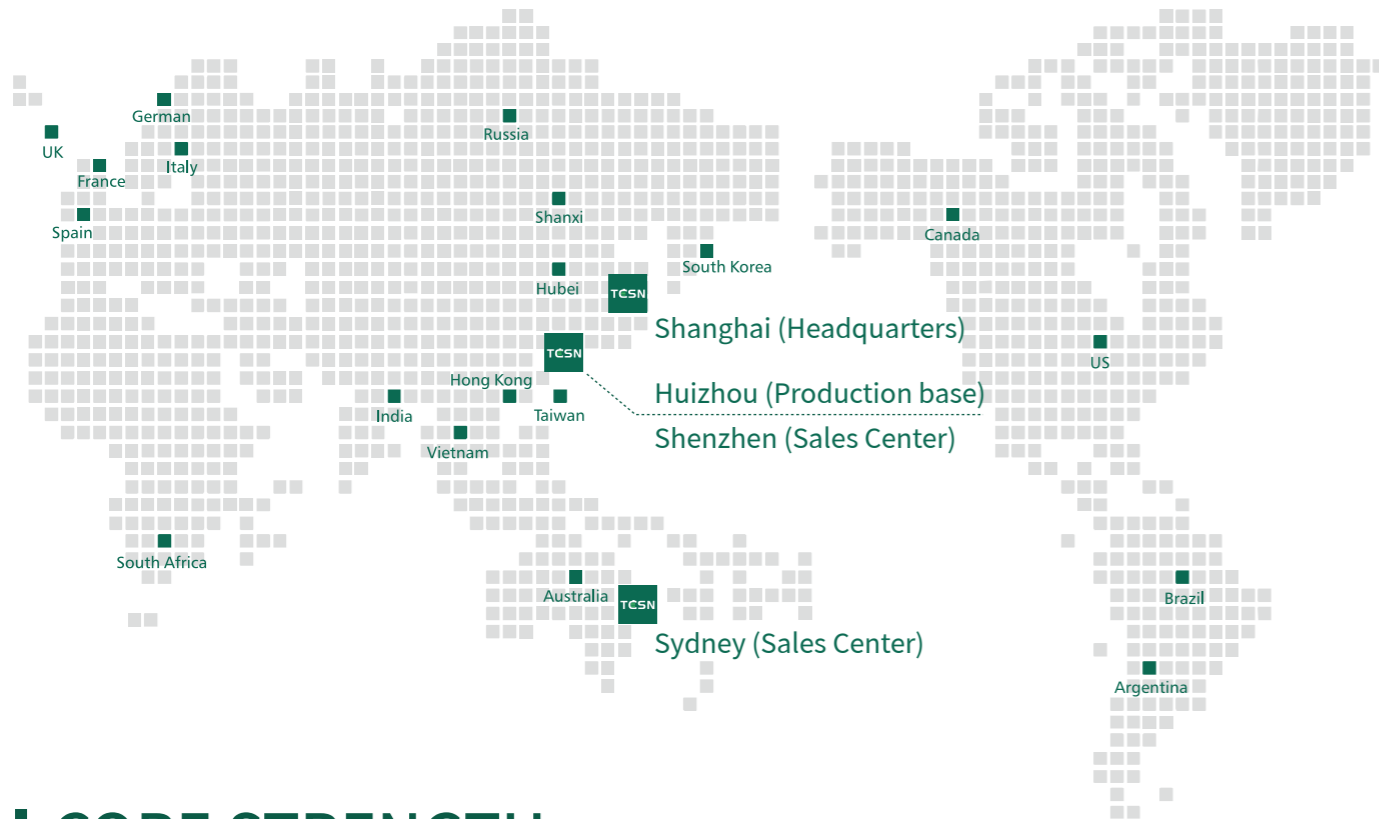
● R&D

● MANUFACTURE

● PRODUCE



SALES MARKET



CORE STRENGTH

Leading the future with exceptional research and development, we create limitless possibilities.

In the ever-evolving world of science and technology, we stand at the forefront, leveraging our outstanding R&D capabilities to embark on a journey of boundless innovation. We firmly believe that research and development are the powerful engines driving global progress, and our mission is to continually push the boundaries of technology.

Our R&D prowess is widely recognized, and our products and services have earned the trust and admiration of users worldwide. We understand that exceptional R&D capabilities stem not only from technological accumulation but also from market sensitivity and a deep understanding of user needs.

We are committed to working tirelessly, continuing to innovate, and delivering more surprises and value to our users.

2⁺ Research Centers
Shenzhen, CN & Sydney

10⁺ Products (Average) Patents
Granted per year

10⁺ million(USD)
Invested in R&D

10⁺ Technical Experts
Recognized

HONORS AND PATENT ACHIEVEMENTS DISPLAY

In our pursuit of excellence, we continuously innovate, with scientific and technological advancements as our core driving force. We are market-oriented, committed to providing customers with high-quality products and services. Our exceptional technical expertise, rigorous research and development approach, and relentless spirit of innovation have earned us numerous honors and patents, fueling our enterprise's growth and success.

《 SYSTEM CERTIFICATION 》



《 PRODUCT CERTIFICATION 》



《 LETTERS PATENT 》



* The page is limited, only some certificates are displayed;

BMS SYSTEM

BMS, short for Battery Management System, is the core component and security device within the entire battery system.

The BMS system independently developed by TCSN adopts a three-level management structure, namely BMU, RBMS and SBMS, to ensure the smooth and efficient operation of the entire battery system. Adopt four-level security control strategy, from cell to system protection, to ensure the safe and reliable operation of battery system. Combined with large quantities of data analysis, predictive operation and maintenance management of battery system is realized through multiple parameters.



BMU



RBMS



SBMS



BMU:

Whilst simple in design is the cornerstone of a successful and safe battery management system. This is fitted to the cells within the battery module itself. Responsible for collecting the voltage, temperature and other data of each cell. Equipped with balancing, according to the voltage deviation of each cell will active and balance to the same top voltage, to improve the consistency of the system and ensure the smooth operation of the system. Equipped with a temperature control system, when there is a high temperature, BMU controls the cooling fan, for module level cooling.



RBMS:

Rack BMS is used to control and protect the overall rack of batteries. All BMUs daisy chain and connect to RMS to report cell voltages, temperatures, protection status, etc.

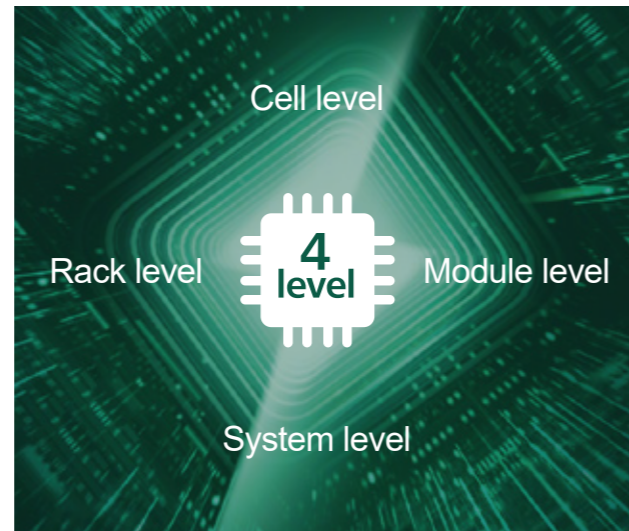
With this data the RBMS in rack rack reports back to the System BMS (SBMS) which then interfaces with many brands and models of inverter.



SBMS:

Responsible for organizing the uploaded data of each RBMS in the system, analyzing them in real time, generating the system operation status report, and displaying it on the display screen through the communication line information is exchanged with UPS through dry contact and communication protocol (CANBUS or MODBUS).

SECURITY CONTROLS



Cell level: The battery cell itself is constructed using LFP, of which is inherently safe. In addition, a one-way explosion-proof valve is designed within the cell. In case of emergency, such as short circuit, the explosion valve will operate to prevent further hazards.

Module level: The temperature control module controlled by BMU at the module level can adjust the temperature in the module in real time to ensure that the operating environment is suitable.

Rack level: Rack level is through the BCM internal DC circuit breaker, contactor, pre-charge resistor and other power devices. The system can then protect against overcharge, over-current, reverse connection.

System level: The main purpose of the system is to control the cell voltage differential between racks in the parallel connection, and realize the balance adjustment between racks through pre-charge resistance to ensure the safety of system operation.

Smart cloud management system

- Support mobile APP or PC terminal monitoring management
- Management security levels
- Predictive operation and maintenance control
- Closed-loop operation and maintenance management

Smart fire control system

- Design of hot melt fire pipe for perfluoroohexanone fire extinguishing agent
- Module built-in + Cabinet protection, eliminating internal and external risks
- 7day/24hr on-line monitoring

Mobile App monitoring interface

Historical data can be queried at anytime



LFP CELL



Product Introduction

TCSN adopts LFP cell, which meets UL, IEC, CE and other standards. The cell has excellent safety, long cycle life (1C charge and discharge 100%DOD cycle 6000+ times), support high rate discharge (10C), support fast charging (2C).



High Consistency

Full automatic production line full process monitoring, Ensure battery cell consistency



Maximum Safety

The battery cell has passed multiple certifications such as CB, UL, IEC, CE, etc



High Output

Supports 14C discharge rate, low internal resistance, low temperature rise, and strong performance.



Maximum Lifespan

Stable charging and discharging Long cycle life

Model Parameters

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Internal resistance (mΩ)	Weight(Kg)	Maximum discharge rate	Cycle Life	Temperature
LFP36130160-40P	3.2	40	36*130*160	≤0.5	1.53±0.1	14C	4000	-20~60
LFP36130160-50K	3.2	50	36*130*160	≤0.5	1.52±0.1	6C	4000	-20~60
LFP2914897-40	3.2	40	29*148*97	≤1	0.87±0.05	2C	2500	-20~60
LFP26148134-50	3.2	50	26*148*134	≤1	1.15±0.05	2C	2500	-20~60
LFP50160116-100L	3.2	100	50*160*116	≤0.5	1.94±0.1	2C	6000	-20~60
LFP50160116-102	3.2	102	50*160*116	≤0.6	2.05±0.1	2C	4000	-20~60

Motive-Dubhe GF Series








Application Introduction

GF series is suitable for all kinds of golf cart power systems;



Model Parameters

Model	Voltage (V)	Capacity(Ah)	Constant current (A)	Dimension (W*L*H)	Weight(Kg)	IP Level	Bluetooth	Display
Dubhe GF36-50	38.4	50	50	385*338*245	~28	IP67	Yes	Yes
Dubhe GF36-80	38.4	80	80	385*338*245	~30	IP67	Yes	Yes
Dubhe GF36-105	38.4	105	105	385*338*245	~35	IP67	Yes	Yes
Dubhe GF51-50	51.2	50	50	460*334*247	~33	IP67	Yes	Yes
Dubhe GF51-105	51.2	105	100	460*334*247	~45	IP67	Yes	Yes
Dubhe GF51-105	51.2	105	105	500*343*256.5	~48	IP67	Yes	Yes
Dubhe GF76-105	76.8	105	105	740*320*246	~72	IP67	Yes	Yes

- 
Long Lifespan
 1C charging and discharging 100% DOD cycle life 4000 times, Design life of 15 years
- 
Zero Maintenance
 No maintenance is required other than charging
- 
Long Service Life
 5 years standard warranty, extendable
- 
Fast Charging
 Support 1C fast charge, standard charge can be fully charged in 2.5 hours
- 
High Safety
 Using LFP Cells and an integrated BMS the battery pack can protect in all situations.



Motive-Dubhe SI Series



Long Lifespan
1C charging and discharging 100% DOD
cycle life 4000 times, Design life of 15 years

Environmentally Friendly
No pollutant discharge

Intelligent
Equipped with DTU module to support
cloud platform management

Low Self-Discharge
Monthly self-consumption $\leq 2\%$

Long Service Life
5 years standard warranty, extendable

High Safety
Using LFP Cells and an integrated BMS the
battery pack can protect in all situations.

Application Introduction

SI series is suitable for large and medium-sized sightseeing vehicles, patrol vehicles, low-speed logistics vehicles and other large and medium-sized low-speed vehicles;








Model Parameters

Model	Voltage (V)	Capacity(Ah)	Constant current (A)	Dimension (W*L*H)	Weight(Kg)	IP Level	Bluetooth	Display
Dubhe SI76-150	76.8	150	200	680*420*230	~98	IP65	Yes	Yes
Dubhe SI76-200	76.8	200	200	475*442*220	~67.3*2	IP65	Yes	Yes
Dubhe SI76-200L	76.8	200	200	1100*290*280	~125*2	IP65	Yes	Yes
Dubhe SI76-300	76.8	300	300	860*260*280	~93*2	IP65	Yes	Yes
Dubhe SI96-400	96	400	400	1100*335*280	~150*2	IP65	DTU	Yes
Dubhe SI96-400L	96	400	400	1450*320*280	~155*2	IP65	DTU	Yes
Dubhe SI96-560	96	560	400	1360*280*260	~160*3	IP65	DTU	Yes
Dubhe SI144-200	144	200	200	1200*290*280	~118*2	IP65	DTU	Yes
Dubhe SI320-105	320	105	105	1200*290*280 500*374*209	Batt Pack 138 High Box 26	IP65 IP65	DTU DTU	Yes Yes



Motive-Dubhe CM Series



- 
Long Lifespan
 1C charging and discharging 100% DOD cycle life 4000 times, Design life of 15 years
- 
Low Self-Discharge
 Monthly self-consumption $\leq 2\%$
- 
Long Service
 5 years standard warranty, extendable
- 
Environmentally Friendly
 No pollutant discharge
- 
High Safety
 Using LFP Cells and an integrated BMS the battery pack can protect in all situations



Application Introduction

CM series is suitable for all kinds of cleaning equipment, small size, light weight, high energy density, long service life;



Model Parameters

Model	Voltage (V)	Capacity(Ah)	Constant current (A)	Dimension (W*L*H)	Weight(Kg)	IP Level	Bluetooth	Display
Dubhe CM24-50	25.6	50	80	307*168*226	~15	IP67	No	No
Dubhe CM24-80	25.6	80	80	338*307*228	~22	IP67	No	No
Dubhe CM24-105	25.6	105	100	338*307*251	~27	IP65	No	No
Dubhe CM24-150	25.6	150	150	530*372*275	~42	IP65	No	No
Dubhe CM24-160	25.6	160	150	400*330*260	~45	IP65	No	No
Dubhe CM24-200	25.6	200	200	526*333*223	~49	IP65	No	No
Dubhe CM24-210	25.6	210	200	488*350*261	~50	IP65	No	No
Dubhe CM24-280	25.6	280	200	450*430*261	~70	IP65	No	No
Dubhe CM24-280	25.6	315	200	600*350*262	~72	IP65	No	No
Dubhe CM36-160	38.4	160	150	600*350*323	~64	IP65	No	No
Dubhe CM36-210	38.4	210	200	600*350*262	~78	IP65	No	No
Dubhe CM48-150	48	200	200	530*370*273	~84	IP65	No	No

Motive-Dubhe FL Series



Long Lifespan

1C charging and discharging 100% DOD cycle life 4000 times, Design life of 15 years



Fast charge high discharge charge ratio

Support 1C fast charge, normal standard 0.3C charge. Discharge and charge ratio $\geq 98.5\%$



Intelligent

Equipped with DTU module to support cloud platform management



High Safety

Using LFP Cells and an integrated BMS the battery pack can protect in all situations.



Long Service

5 years standard warranty, extendable



Environmentally Friendly

No pollutant discharge



Low Self-Discharge

Monthly self-consumption $\leq 2\%$



Application Introduction

FL series is suitable for all kinds of battery forklift power system, customized design, suitable for all kinds of forklifts, tractors, aerial work platform, etc.

Model Parameters


Model	Voltage (V)	Capacity(Ah)	Constant current (A)	Dimension (W*L*H)	Weight(Kg)	IP Level	Bluetooth	Display
Dubhe FL24-100	25.6	100	100	300*200*226	~30	IP65	No	Yes
Dubhe FL24-150	25.6	150	150	338*200*228	~55	IP65	No	Yes
Dubhe FL24-200	25.6	200	200	550*200*420	~75	IP65	No	Yes
Dubhe FL24-300	25.6	300	300	600*200*500	~95	IP65	No	Yes
Dubhe FL24-400	25.6	400	400	600*350*600	~125	IP65	No	Yes
Dubhe FL36-500	38.4	500	400	983*405*590	~170	IP65	No	Yes
Dubhe FL36-600	38.4	600	400	986*623*585	~194	IP65	No	Yes
Dubhe FL48-300	51.2	300	300	526*333*223	~155	IP65	No	Yes
Dubhe FL48-400	51.2	400	400	815*740*479	~180	IP65	No	Yes
Dubhe FL48-560	51.2	560	400	905*815*479	~195	IP65	No	Yes
Dubhe FL72-200	76.8	200	200	975*465*780	~155	IP65	No	Yes
Dubhe FL72-300	76.8	300	300	975*460*785	~215	IP65	No	Yes
Dubhe FL72-400	76.8	400	400	1134*410*582	~265	IP65	No	Yes
Dubhe FL72-500	76.8	500	400	1134*410*582	~258	IP65	No	Yes
Dubhe FL80-400	83.2	400	400	1024*711*784	~258	IP65	No	Yes
Dubhe FL80-500	83.2	500	400	1028*711*784	~315	IP65	No	Yes
Dubhe FL80-600	83.2	600	400	1023*849*627	~365	IP65	No	Yes


General Purpose-LEAD-ACID Replacement Series



 **Long Lifespan**
20 years design life

 **Multiple series and parallel**
Support multiple series/parallel use

 **High Efficiency**
Efficient battery management system

 **Multifunction**
Active Equalizer, Bluetooth, and display (optional)

 **High Safety**
The safest lithium iron phosphate battery technology

Product Introduction

TCSN power uses LFP cells on the basis of retaining the appearance of standard lead-acid, batteries to develop high-energy density, high-safety, and intelligent becomes and intelligent battery.

Covers multiple voltage ranges such as 12V, 24V, 48V, etc. The product supports 6 units in series and multiple groups in parallel; complete models; long service time, supports multiple customizations, and provides users with a full range of energy solutions.

Application Introduction

Camping RV, low-speed vehicle, small UPS, Solar system ,Other energy storage areas.

Model Parameters

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Weight(Kg)	Bluetooth	CAN	RS485	Heating	LCD	Active equalization
S12-100	12.8	100	306*171*215	10.5	P	P	P	P	P	P
S12-100A	12.8	100	330*171*220	11	P	P	P	P	P	P
S12-100B	12.8	100	330*171*220	11	P	P	P	P	P	P
S12-135	12.8	135	330*171*220	13.5	P	P	P	P	P	P
S12-150	12.8	150	330*171*220	15.5	P	P	P	P	P	P
S12-200	12.8	200	522*238*223	20.5	P	P	P	P	P	P
S12-200B	12.8	200	552*110*288	20	P	P	P	P	P	P
S12-230	12.8	230	522*238*223	22	P	P	P	P	P	P
S12-230M	12.8	230	367*190*245	21.5	P	P	P	P	P	P
S12-300	12.8	300	522*238*223	27	P	P	P	P	P	P
S12-300M	12.8	300	367*190*245	27	P	P	P	P	P	P
S12-460	12.8	460	522*238*223	40	P	P	P	P	P	P
S24-50	25.6	50	306*171*215	10.5	P	P	P	P	P	P
S24-100	25.6	100	522*238*223	20.5	P	P	P	P	P	P
S24-200	25.6	200	522*238*223	39	P	P	P	P	P	P
S24-230	25.6	230	522*238*223	40	P	P	P	P	P	P
S48-100	51.2	100	522*238*223	39	P	P	P	P	P	P
E6-6	6.4	6	47*70*96	0.4	N	N	N	N	N	N
E6-8	6.4	8	151*50*93	0.54	N	N	N	N	N	N
E6-12	6.4	12	151*50*93	0.66	N	N	N	N	N	N
E12-6	12.8	6	90*70*101	0.66	N	N	N	N	N	N
E12-8	12.8	8	151*65*97	1.1	N	N	N	N	N	N
E12-12	12.8	12	151*65*97	1.3	N	N	N	N	N	N
E12-30	12.8	30	181*70*156	3	N	N	N	N	N	N
E12-40	12.8	40	174*165*125	4.5	N	N	N	N	N	N
E12-50	12.8	50	165*126*175	5.8	N	N	N	N	N	N
E12-60	12.8	60	198*166*170	6.8	N	N	N	N	N	N
E12-75	12.8	75	198*166*170	7.9	N	N	N	N	N	N
E12-100M	12.8	100	260*168*209	9.5	N	N	N	N	N	N
E12-100	12.8	100	260*168*209	9.5	N	N	N	N	N	N
E12-100B	12.8	100	395*110*293	10.5	N	N	N	N	N	N
E12-150	12.8	150	330*171*220	15.5	N	N	N	N	N	N
E12-200	12.8	200	483*170*240	18.5	N	N	N	N	N	N
E12-200B	12.8	200	552*110*288	20	N	N	N	N	N	N
E12-300	12.8	300	367*190*245	27	N	N	N	N	N	N
E12-400	12.8	400	522*238*223	37	N	N	N	N	N	N
EV12-100E	12.8	100	318*175*189	10	N	N	N	N	N	N
EV12-150E	12.8	150	355*175*189	15	N	N	N	N	N	N
E24-6	25.6	6	151*65*97	1.3	N	N	N	N	N	N
E24-50	25.6	50	260*168*209	9.5	N	N	N	N	N	N
E24-100	25.6	100	483*170*240	18.5	N	N	N	N	N	N
E24-200	25.6	200	522*238*223	37	N	N	N	N	N	N

Energy Storage SY Series



Long Lifespan
1C Charge and discharge, 80%DOD 5000+ times. 20 years design life, 5 years warranty

Fast charge high rate
Fast charge and discharge High rate discharge

High Efficiency
Efficient operation and maintenance automatic and intelligent management

Multiple series and parallel
Support multiple series/parallel use

High Safety
The safest lithium iron phosphate battery technology

Multifunction
Active Equalizer, Bluetooth, and display (optional)



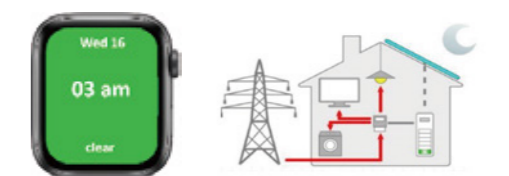
Solar Energy goes directly to load, with any excess being stored in battery.



During the day, when battery is fully charged, the additional energy produced by solar can be sold and exported into the grid.



At evening, the energy stored in the battery is used to power the home.



At night, when the energy stored in the battery is depleted, the grid supplies energy to the power to the home.

Product Introduction

SY series is a ultra-thin high-performance lithium Iron battery specifically designed for narrow spaces, supporting wall mount and internal vehicle installation. This series of products are small in size and easy to install. Support high-rate discharge, and support multiple units in series & parallel.

The system is safe and reliable, and can also be applied to home energy storage, industrial, and commercial energy storage applications.

Application Introduction

Home energy storage, Industrial and Commercial energy storage systems.

Model Parameters

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Terminal	Weight(Kg)	Discharge current	CAN	RS485	Bluetooth	LCD
SY12-100	12.8	100	600*270*65	Ads175A	15.5	200	N	N	P	Y
SY12-100E	12.8	100	510*275*70	Ads120A	15	100	N	N	P	Y
SY12-200	12.8	200	850*275*70	Ads175A	26	200	N	N	P	Y
SY25.6-100	25.6	100	442*330*125	M6	25	100	Y	Y	P	Y
SY25.6-200	25.6	200	442*600*136	M6	48	200	Y	Y	P	Y
SY25.6-300	25.6	300	442*580*155	M6	55	200	Y	Y	P	Y
SY51.2-100	51.2	100	442*600*136	M6	48	100	Y	Y	P	Y
SY51.2-200	51.2	200	442*750*230	M8	118	100	Y	Y	P	Y
SY51.2-300	51.2	300	442*860*240	M8	121	100	Y	Y	P	Y
SY51.2-400	51.2	400	615*970*240	M8	182	100	Y	Y	P	Y

Energy Storage CN Rack Series



Telecommunication NP Series



Long Lifespan

1C Charge and discharge, 80%DOD 5000+ times. 20 years design life.



Fast charging/discharging

Fast charging and fast discharging



Long Lifespan

20 years of design service life



Modular

Modular design is simple and fast



Multifunctional

Intelligent balance and good consistency
LCD display, multiple communication options available



Multi parallel use

Supports multiple parallel connections



Multifunctional

Intelligent balance, good consistency



Multi parallel use

Supports multiple parallel connections

Product Introduction

The CN series is designed for traditional energy storage applications, using high-performance prismatic LFP cells and 19-inch standard module design. The product has a small footprint, light weight, simple installation, and supports up to 16x in parallel.

Application Introduction

Home energy storage, industrial and commercial energy storage.

Model Parameters

Model	Voltage (V)	Capacity(Ah)	Dimension(W*L*H)	Terminal	Discharge	CAN	RS485	Dry Contact	APP	LCD
CN25.6-100	25.6	100	442*300*130	M8	100	P	P	P	P	Y
CN25.6-200	25.6	200	442*420*130	M8	150	P	P	P	P	Y
CN51.2-100	51.2	100	442*420*130	M8	100	P	P	P	P	Y
CN51.2-200	51.2	200	442*550*222	M8	150	P	P	P	P	Y

Product Introduction

NP series products, using high capacity and high safety LFP cells, comes equipped with an intelligent BMS management system; Safe, reliable, and with excellent performance makes the NP series perfect for telecommunication.

Application Introduction

Communication Tower, Communications Backup.


Model Parameters

Model	Voltage (V)	Capacity(Ah)	Dimension(W*L*H)	Terminal	Weight(Kg)	Discharge	CAN	RS485	Dry Contact	LCD
NP51.2-50	51.2	50	442*400*86	M8	27	50	P	P	P	P
NP51.2-75	51.2	75	442*400*130	M8	33	75	P	P	P	P
NP51.2-100	51.2	100	442*420*130	M8	45	100	P	P	P	P
NP51.2-150	51.2	150	442*500*174	M8	67	150	P	P	P	P
NP51.2-200	51.2	200	442*550*222	M8	92	200	P	P	P	P


Energy Storage Balcony Merak Series



 **Existing Inverter Compatibility**
with 99% of Inverters

 **High input**
1000W Mppt input

 **APP Control**
Battery Reserve Setting

 **Waterproof**
IP65 waterproof

Balcony Energy Storage System

Massive capacity

Merak V800 is the Ideal Match for 800W Micro Inverters with its 2560/5120Wh Capacity.



Bulb 12.8H | Icebox 12.8H | Television 23.2H | Computer 25.6H

No installation required

Plug & Play: Just let the Merak V800-B48 into your existing solar system on the balcony, and it's ready to work seamlessly.



Enormous 1000W MPPT input

No Comparison: Eternity Merak V800 Boasts an Unmatched MPPT Input, Setting It apart from Other brands.

Smarten up your power

Maximize your power's potential with our smart app for remote monitoring, control, and upgrades.



- Battery Percentage
- Input Power
- Battery Reserve Setting
- Output Power
- Remote Power ON / OFF
- Firmware Upgrade
- ...

Model	Merak V800_B48-50	Merak V800_B48-100
Battery Type	LFP	
Capacity	2560Wh	5120Wh
Lifecycle	4000 cycles to 80%	
Battery voltage platform	3.2V	
Single cell capacity	50Ah	
Pack type	16 in series 1 in parallel	16 in series 1 in parallel*2
AC Input/Output		
Main topology	L+N+PE	
Nominal Voltage	230VAC	
Input Voltage Range	160~270VAC	
Frequency Range	40~65Hz Default	
Power Factor	≥0.99	
DC Input/Output		
Voltage Regulation	≤±5%	
Frequency Range	50/60Hz	
Charging Current	10~40A adjustable	
Charging voltage	44.0-57.6V	
PV Charging mode	MPPT	
PV Max on-grid power	800W	
Max PV voltage	55Vdc	
Max PV current	30A	
Specifications		
Dimension	430*160*660mm	430*160*990mm
Weight	39.0kg	68.6kg
IP	IP65	
Power	On-grid: 800W Off-grid: 2.0kW	

Vertical Energy Storage System



- Long Lifespan**
15 years of design service life
- Intelligentize**
Efficient operation and maintenance
Automatic and intelligent management
- Visualization**
Visual display interface, easy to maintain

- Modular**
Modular design is simple and fast
- Multi parallel use**
Hybrid grid inverter, support parallel
- Multifunction**
Support RS485/RS232 wireless network

Product Introduction

Vertical Energy Storage System is a complete battery system for home energy storage, available in both LFP and Sodium. The system adopts modular design, stacked structure, through the parallel battery modules to increase the capacity of the system, achieving plug and play. The system is safe and reliable, can be applied to home storage, industrial, and commercial energy storage.

Application Introduction

Home energy storage, industrial, and commercial energy storage.

Model Parameters

Model	Merak-3K-5/10		Merak-5K-5/10/15			Merak-10K-10/15		
AC Input								
Rate Input Voltage(VAC)	208/220/230/240;L+N+PE						230VAC	
Voltage Range(VAC)	90~280±3 (normal mode) ; 170~280±3 (UPS mode)					170-280(For personal Computer) ; 90-280(For Home Appliances)		
Frequency(Hz)	40~70 (Default)			50/60(Auto Adaptive)				
AC Output								
Rated Capacity(kW)	3		5			10		
Peak Power(kVA)	6		10			20		
Rate Voltage(VAC)	208/220/230/240						230	
Frequency	50/60Hz±0.1%							
OverLoad Capacity (Battery Mode)	60s@102%~110%load;10s@110%~130%load; 3s@130%~150%load;0.2s@>150%load					3s@130%-150% load; 10s@110%-130% load		
Charger(PV/AC)								
Solar Charger Type	MPPT							
Max PV input power(kW)	1.5		6			10		
MPPT Range@Operating Voltage(VDC)	30~115		120~450			90~450		
Max PV Open Circuit Voltage(VDC)	145		500					
Max PV Charge Current(A)	60		80			150		
Max AC Charge Current(A)	60		80			150		
Max.Charge Current (PV+AC)	60		80			150		
Battery								
Normal Voltage(VDC)	25.6			51.2				
Capacity(Ah)	200	400	100	200	300	200	300	
Energy(Wh)	5120	10240	5120	10240	15360	10240	15360	
Charge Voltage(VDC)	27.2~27.6V					57.6V		
Overcharge Protection(VDC)	29.2V					58.4V		
Battery type	LFP							
Interface								
HMI	LCD							
Interface	Modbus							
Monitoring	WiFi(Optional)							
General Data								
Ingress Protection	IP20							
Operating Temperature	0~50°C					0~45°C		
Relative Humidity	20%~95%(Non-condensing)					5%~95%(Non-condensing)		
Storage Temperature	-15°C~60°C					-10°C~50°C		
Net Weight(kg)	68	118	68	118	168	128	178	
Dimensions/W*D*H(mm)	598*200*794	598*200*1224	598*200*794	598*200*1224	598*200*1654	600*200*1342	600*200*1772	
Max.Operating Altitude	4000m(Derating above 1000m)							
Noise Emission	≤50dB							

Off-Grid Solar Storage Inverter



High Efficiency

High power density, low cost Typical switch time is 10ms
In UPS mode High charge and discharge Efficiency Compatible with lead-acid and lithium batteries



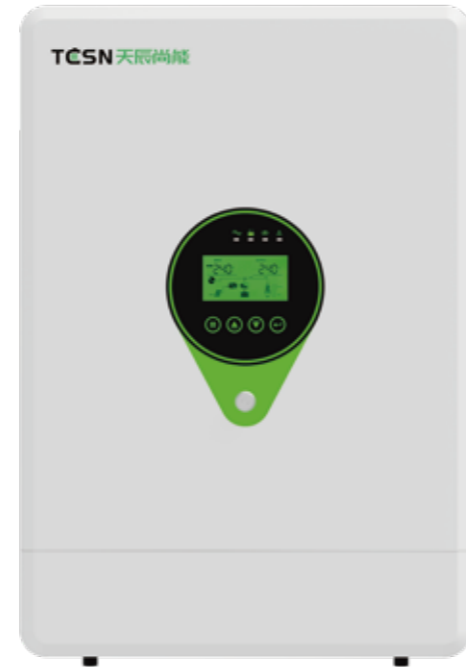
High Security

Support lithium battery activation wake-up function Protection:Over Temperature,Over load,Over voltage,Over current,Short circuit protection



User Friendly

Industrial design with a modern aesthetic look Easy to install and simple to use Installationa



Specifications

Model	HESS-3k-U	HESS-5k-U
AC Input		
Rate Input Voltage(VAC)	208/220/230/240;L+N+PE	
Voltage Range(VAC)	90~280±3 (normal mode) ;170~280±3 (UPS mode)	
Frequency(Hz)	40~70 (Default)	
AC Output		
Rated Capacity(kW)	3	5
Peak Power(kVA)	6	10
Rate Voltage(VAC)	208/220/230/240;L+N+PE	
Power Factor(PF)	1	
Frequency	Line Mode: Synchronized range, Battery Mode:50/60Hz±0.1%	
Transfer Time(ms)	10ms(Typical)	
Harmonic Distortion	≤3% (Linear Load) , ≤5% (Non-linear Load PF=0.7)	
OverLoad Capacity (Battery Mode)	60s@102%~110%load;10s@110%~130%load; 3s@130%~150%load;0.2s@>150%load	
Max.Efficiency(Battery Mode)	93.5%@24VDC	94%@48VDC
Prallel	/	Support
Charger(PV/AC)		
Solar Charger Type	MPPT	
Max PV input power(W)	1500	5500
PV Voltage Accuracy	±2%	
MPPT tracking range (VDC)	30~115	120~430
Efficiency	99.5 MAX	
Max PV voltage(VDC)	145	500
Max PV current(A)	60	80
Charger(AC Mode)		
Max AC Charge Current(A)	60	80
Charging voltage(VDC)	Settable:28~29V	Settable:56~58V
Battery		
Battery type	Lithium-ion/VRLA/Custom	
Battery over Voltage Protection (VDC)	32	61
Battery under voltage Protection(VDC)	21	42
Over current protection	Fuse (Fast acting)	
Interface		
HMI	LCD	
Interface	RS232/USB	
Monitoring	/	WiFi(Optional)
General Data		
Ingress Protection	IP20	
Operating Temperature	0~50°C	
Relative Humidity	20%~95%(Non-condensing)	
Storage Temperature	-15°C~60°C	
Net Weight(kg)	15.5	16
Dimensions(W*D*H)	335×456×139mm	
Max.Operating Altitude	4000m(Derating above 1000m)	
Noise Emission	≤50dB	

Industrial and Commercial Storage Series



Data backup

Real-time data backup
Stability guarantee



Patent design

With pressure reduction and flame retardant function



One-click start

Automatic operation
Supports multiple parallel connections



Outdoor use

Protection class IP54
Suitable for outdoor use



High security

Automatic fire protection system
Four layers of safety protection design



Remote viewing

Supports remote viewing services

Product introduction

The system is plug and play, easy to transport, install, and maintain. It is a one stop integrated system consisting of a battery module, PCS, photovoltaic controller (MPPT) (optional), control system, fire control system, temperature control system and monitoring system. The synergy of system components enables efficient charging and discharging. The system can support AC-coupled solar input and can also be operated in off-grid mode with only programming changes.

The battery cluster consists of modules connected in series, and the entire battery system is controlled by BCM to monitor the cluster voltage and current in real time. The battery module uses LiFePo4 battery cells. The distributed BMM control system has the function of collecting battery voltage, battery temperature and cell balancing to ensure the effective and safe operation of the module.

System Characteristics

Industrial Touch Screen

Easy configuring custom settings on the local industrial 13.3" monitor. Displaying settings, alarms, schedules, loads, the local monitor provides complete analysis of the systems operation.

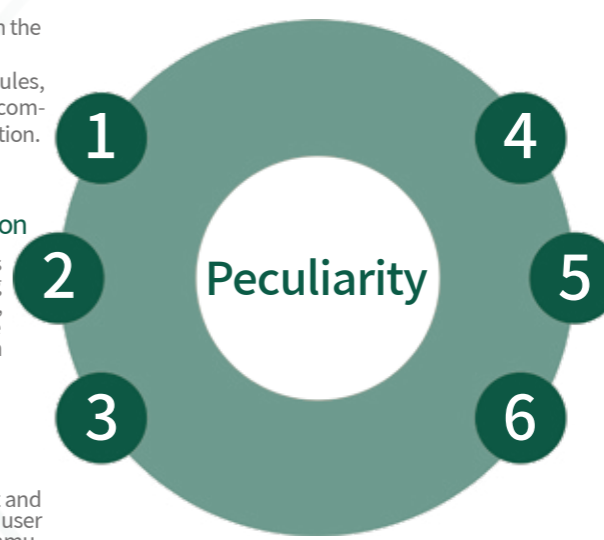
Powerful data collection function

The system monitors and collects data on all equipment including power conversion equipment, BMS, energy metering, temperature control systems, and fire protection systems.

Access device

Free combination + expansion

The device interfaces are abundant and can be flexibly configured based on user requirements (for example, the communication management computer or serial port server can be used to expand device access).



Data acquisition and forwarding

Support serial port, TCP/IP, 4G/5G (optional) and other communication modes, and can exchange data with third-party platforms. Support IEC101, IEC104, Modbus RTU, Modbus TCP, CDT and other power communication protocols.

Functional characteristics

Support remote second-level remote control, emergency start and stop; Policy operation supports local mode and remote mode; Support peak demand shaving, valley filling, demand control, reverse power protection, plan tracking and other strategies.

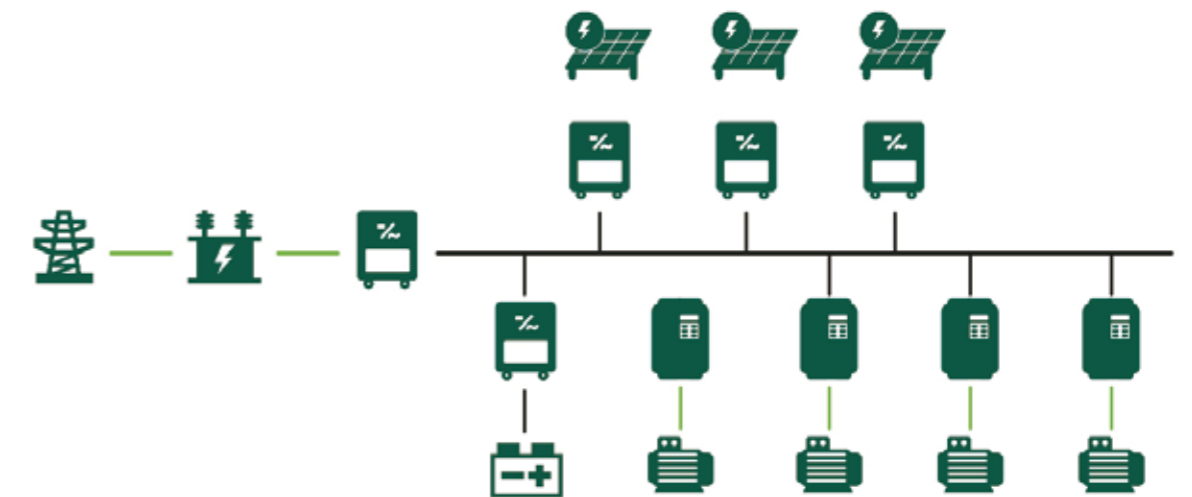
Easy to install

Panel installation, PCS, BMS, metering, temperature control, fire protection, etc., support RS485 based, dry contact hybrid networking, easy installation.

Energy Storage Application

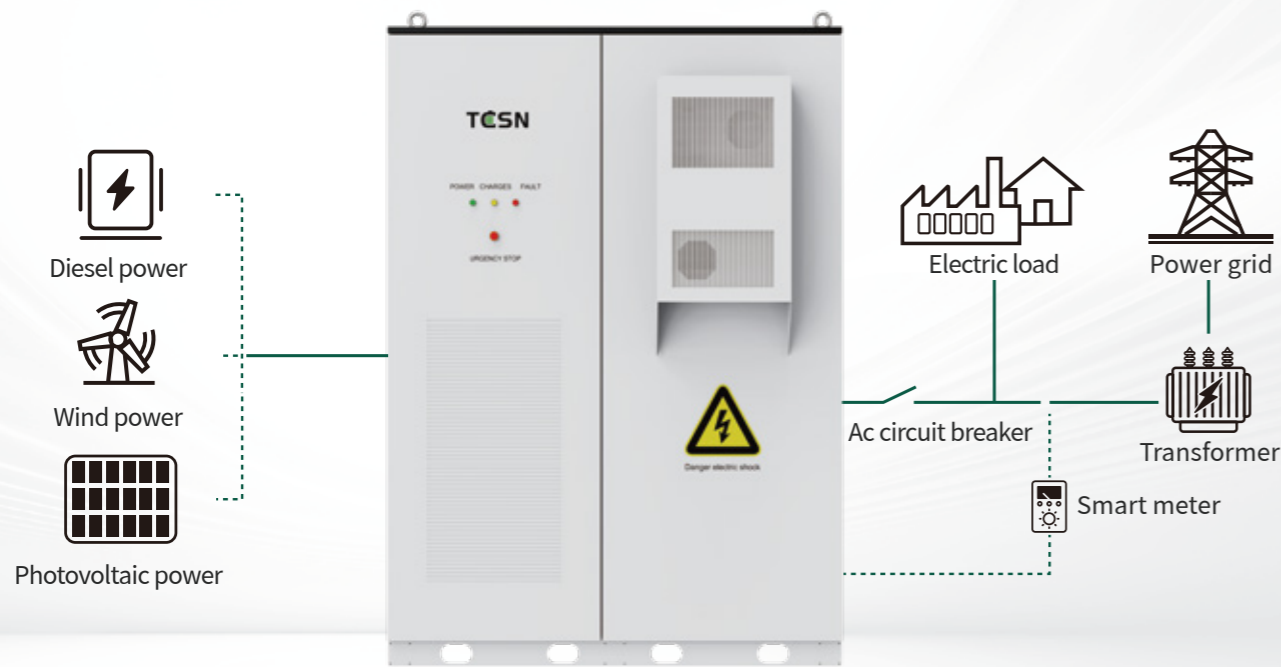
Due to the large power consumption installations such as factories, enterprises, and large shopping malls, the daily load fluctuates greatly, which is prone to insufficient capacity of the power grid during peak consumption and more surplus during low consumption. The Merak energy storage system can solve these problem and play a role in capacity expansion. Additionally the Merak can assist with voltage regulation and power factor control.

The total cost of ownership and ROI of the Merak can be quickly realized through strategies such as buying energy in off-peak for use in on-peak.



— Direct current — Alternating current

System Topology



Merak50-107kwh-SP

Basic parameter	107 Air cooled cabinet
Model number	Merak50-107kwh-SP
Permutation type	1P120S
Cell capacity	280Ah
Magnification	0.5P
Inverter power	50kW
Rated capacity	280Ah
Rated energy	107kWh
Nominal voltage	384Vdc
Operating voltage range	300~438Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Air cooling
Energy storage system Fire protection system	Aerosol
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP54
Weight	1.7t
Dimensions (L x W x H)	1000x1450x2100mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015

Product Characteristics

- Modular design, easy maintenance, easy loading and unloading, transportation level installation.
- High safety, with air ventilation, explosion-proof pressure relief device, equipped with Lion-tamer combustible gas detector, fire protection and so on.
- Long life, under 0.5C charging and discharging conditions, 6000 cycles, 80% energy remaining.
- Independently developed BMS, high sampling accuracy, advanced SOC, SOH calculation methods.
- DC1000/1500V voltage platform.
- Two-stage short-circuit protection, hierarchical fast current limiting.
- Online SOC, SOH, SOE estimation based on reality and big data;

Series Model

Merak 50-107SP	Merak 100-215SP	Merak 300-645SP
Merak 50-161SP	Merak 100-215NP	Merak 500-1075SP

Merak50-161kwh-SP

Basic parameter	161 Air cooled cabinet
Model number	Merak50-161kwh-SP
Permutation type	1P180S
Cell capacity	280Ah
Magnification	0.5P
Inverter power	50kW
Rated capacity	280Ah
Rated energy	161kWh
Nominal voltage	576Vdc
Operating voltage range	450~657Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Air cooling
Energy storage system Fire protection system	Aerosol
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP54
Weight	2.1t
Dimensions (L x W x H)	1000x1450x2100mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015

Merak100-215kwh-SP

Basic parameter	215 Air cooled cabinet
Model number	Merak100-215kwh-SP
Permutation type	1P120S*2
Cell capacity	280Ah
Magnification	0.5P
Inverter power	50kW*2
Rated capacity	560Ah
Rated energy	215kWh
Nominal voltage	384Vdc
Operating voltage range	300~438Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Air cooling
Energy storage system Fire protection system	Aerosol
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP54
Weight	2.5t
Dimensions (L x W x H)	1700x1450x2300mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015

Merak300-645kwh-SP

Basic parameter	645Kwh 20 feet cabinet
Model number	Merak300-645kwh-SP
Permutation type	1P240S*3
Cell capacity	280Ah
Magnification	0.5P
Inverter power	300kW
Rated capacity	840Ah
Rated energy	645kWh
Nominal voltage	768Vdc
Operating voltage range	600~876Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Liquid cooling
Energy storage system Fire protection system	Perfluorohexone
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP55
Weight	16t
Dimensions (L x W x H)	6058x2438x2591mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015

Merak100-215kwh-SP

Basic parameter	215 Liquid cooled cabinet
Model number	Merak100-215kwh-SP
Permutation type	1P240S
Cell capacity	280Ah
Magnification	0.5P
Inverter power	100kW
Rated capacity	280Ah
Rated energy	215kWh
Nominal voltage	768Vdc
Operating voltage range	600~864Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Liquid cooling
Energy storage system Fire protection system	Aerosol
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP54
Weight	2.5t
Dimensions (L x W x H)	1200x1450x2100mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015

Merak500-1075kwh-SP

Basic parameter	1075Kwh
Model number	Merak500-1075kwh-SP
Permutation type	1P240S*4
Cell capacity	280Ah
Magnification	0.5P
Inverter power	500kW
Rated capacity	1120Ah
Rated energy	1075kWh
Nominal voltage	768Vdc
Operating voltage range	600~876Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤6000
Battery temperature control mode	Liquid cooling
Energy storage system Fire protection system	Perfluorohexone
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP55
Weight	18t
Dimensions (L x W x H)	6058x2438x2591mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015



Low Voltage UPS System SC Series

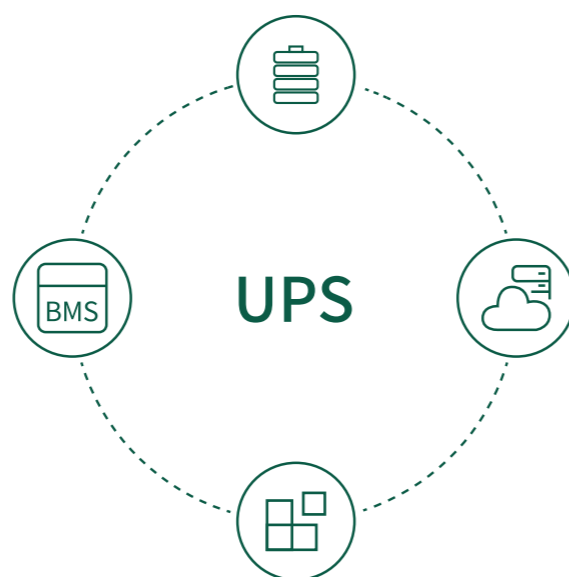


UPS Series

UPS uses Tianchen Shangneng high rate LFP cell and Tianchen self-developed BMS system, integrated remote cloud management system and intelligent fire module, high reliability, good stability, long service life, excellent safety performance.

Features and advantages

The UPS series has four levels of security protection to ensure system safety and reliability throughout its entire lifecycle; Adopting a three-level management structure design, it accurately monitors the status of various components within the system to ensure stable system performance and secure user load power supply.



Application industry

UPS series has a high degree of compatibility, can be widely used in data centers, financial institutions, rail transit systems, educational institutions, medical systems, large working conditions of enterprises, power grids and other important power backup and power protection fields.

SC series products adopt high-capacity high-safety lithium Ion cells and are equipped with the intelligent BMS management system independently developed by TCSN . They are safe and reliable,excellent in performance, stable and reliable, and are suitable for 1-20KW power UPS systems.

Application Introduction

Distributed data centers, financial institutions, rail transit systems, educational institutions, medical systems, large industrial and mining enterprises, and other important power backup and power protection places.



Long Lifespan

Easy to maintain, with a design lifespan of 20 years



Modular

Modular design is simple and fast



Multi Equilibrium

Active current sharing, mixed use of old and new products. Intelligent balancing technology to improve consistency



Multiple series and parallel

Flexible configuration, supporting series and parallel connections.

Model Parameters

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Weight(Kg)	Maximum discharge power	CAN	RS485	Dry Contact	LCD
SC24-50	25.6	50	442*300*86	18	1.2KW	Y	Y	Y	P
SC24-100	25.6	100	442*300*130	24	1.2KW	Y	Y	Y	P
SC48-50	51.2	50	442*450*86	32.5	2.4KW	Y	Y	Y	P
SC48-100	51.2	100	442*400*130	41.5	2.4KW	Y	Y	Y	P
SC72-50	76.8	50	442*600*130	40	3.6KW	Y	Y	Y	P
SC72-100	76.8	100	442*630*130	71	3.6KW	Y	Y	Y	P
SC96-50	102.4	50	442*650*130	52	4.8KW	Y	Y	Y	P
SC96-100	102.4	100	442*650*174	86	4.8KW	Y	Y	Y	P
SC192-27	192	27	442*700*155	55	20KW	Y	Y	Y	P
SC192-50	192	50	442*620*260	93	20KW	Y	Y	Y	P







High Voltage UPS System TC Series

TC series products, using high rate and long cycle life lithium iron phosphate batteries, with the intelligent high-voltage BMS management system independently developed by TCSN, integrated cloud management system and fire protection system, safe and reliable, excellent performance, good stability and high reliability.

Application Introduction

Data centers, financial institutions, rail transit systems, educational institutions, medical systems, large industrial and mining enterprises, power grids and other important power backup and power.



- 
Long Lifespan
 2500 high rate cycles
 6000 conventional cycles
 20 years design life
- 
Multi-Compatible
 Compatible with two/three wire applications
- 
Visualization
 Visual display interface, easy to maintain
- 
Modular
 Modular design is simple and fast
- 
Multiple series and parallel
 Flexible configuration, supporting series and parallel connections.
- 
Active Balancing
 Active current sharing, mixed use of old and new products. Intelligent balancing technology to improve consistency

Supports Three-wire and Two-wire UPS

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Weight(Kg)	Maximum discharge power	CAN	RS485	Dry Contact	LCD
TC40	204.8	50	600*1000*1165	250	40KW/15min	Y	Y	Y	Y
TC60	307.2	50	600*1000*1500	340	60KW/15min	Y	Y	Y	Y
TC80	409.6	50	600*1000*1500	420	80KW/15min	Y	Y	Y	Y
TC100	512	50	600*1000*2000	550	100KW/15min	Y	Y	Y	Y
TC120	614.4	50	600*1000*2000	625	120KW/15min	Y	Y	Y	Y
TC140	716.8	50	600*1000*2000	700	140KW/15min	Y	Y	Y	Y
TC80D	204.8	100	600*1000*1500	440	80KW/15min	Y	Y	Y	Y
TC100D	256	100	600*1000*1500	510	100KW/15min	Y	Y	Y	Y
TC120D	307.2	100	600*1000*1500	580	120KW/15min	Y	Y	Y	Y
TC140D	358.4	100	600*1000*1500	650	140KW/15min	Y	Y	Y	Y
TC160D	409.6	100	600*1000*2000	760	160KW/15min	Y	Y	Y	Y
TC180D	460.8	100	600*1000*2000	830	180KW/15min	Y	Y	Y	Y
TC200D	512	100	600*1000*2000	900	200KW/15min	Y	Y	Y	Y
TC220D	563.2	100	600*1000*2300	970	220KW/15min	Y	Y	Y	Y
TC240D	614.4	100	600*1000*2300	1040	240KW/15min	Y	Y	Y	Y
TCH80	204.8	40	600*1000*1165	265	80KW/5min	Y	Y	Y	Y
TCH100	256	40	600*1000*1165	300	100KW/5min	Y	Y	Y	Y
TCH120	307.2	40	600*1000*1165	360	120KW/5min	Y	Y	Y	Y
TCH140	358.4	40	600*1000*1500	395	140KW/5min	Y	Y	Y	Y
TCH160	409.6	40	600*1000*1500	435	160KW/5min	Y	Y	Y	Y
TCH180	460.8	40	600*1000*2000	530	180KW/5min	Y	Y	Y	Y
TCH200	512	40	600*1000*2000	565	200KW/5min	Y	Y	Y	Y
TCH220	563.2	40	600*1000*2000	600	220KW/5min	Y	Y	Y	Y
TCH240	614.4	40	600*1000*2000	640	240KW/5min	Y	Y	Y	Y
TCH260	665.6	40	600*1000*2300	675	260KW/5min	Y	Y	Y	Y
TCH280	716.8	40	600*1000*2300	715	280KW/5min	Y	Y	Y	Y
TCH300	768	40	600*1000*2300	795	300KW/5min	Y	Y	Y	Y
TC40E	204.8	100	600*1000*1165	290	39.2KW/30min	Y	Y	Y	Y
TC60E	307.2	100	600*1000*1500	390	58.8KW/30min	Y	Y	Y	Y
TC80E	409.6	100	600*1000*2000	545	78.4KW/30min	Y	Y	Y	Y
TC100E	512	100	600*1000*2000	640	98KW/30min	Y	Y	Y	Y
TC120E	614.4	100	600*1000*2000	730	117.6KW/30min	Y	Y	Y	Y

Supports Two-wire UPS

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Weight(Kg)	Maximum discharge power	CAN	RS485	Dry Contact	LCD
TC50	256	50	600*1000*1165	285	50KW/15min	Y	Y	Y	Y
TC70	358.4	50	600*1000*1500	380	70KW/15min	Y	Y	Y	Y
TC90	460.8	50	600*1000*2000	515	90KW/15min	Y	Y	Y	Y
TC110	563.2	50	600*1000*2000	585	110KW/15min	Y	Y	Y	Y
TC130	665.6	50	600*1000*2000	660	130KW/15min	Y	Y	Y	Y
TC150	768	50	600*1000*2300	780	150KW/15min	Y	Y	Y	Y
TC50E	256	100	600*1000*1165	340	49KW/30min	Y	Y	Y	Y
TC70E	358.4	100	600*1000*1500	460	68.6KW/30min	Y	Y	Y	Y
TC90E	460.8	100	600*1000*2000	590	88.2KW/30min	Y	Y	Y	Y
TC110E	563.2	100	600*1000*2000	685	107.8KW/30min	Y	Y	Y	Y
TC130E	665.6	100	600*1000*2300	780	127.4KW/30min	Y	Y	Y	Y

Middle Voltage UPS System NC Series

NC series products, using high-capacity high-safety lithium iron phosphate batteries, matched with the intelligent BMS management system independently developed by TCSN, are safe and reliable, excellent in performance, stable, and highly reliable. Suitable for long delay UPS Power supply backup system;

Application Introduction

Distributed data centers, financial institutions, rail transit systems, educational institutions, medical systems, large industrial and mining enterprises, and other important power backup and power protection sites.



Modular

Modular design is simple and fast



Multiple series and parallel

Flexible configuration, supporting series and parallel connections.



Long Lifespan

Easy maintenance, 20 years design life



Active Balancing

Active current sharing, mixed use of old and new products. Intelligent balancing technology to improve consistency

Supports Three-wire and Two-wire UPS

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Weight(Kg)	Maximum discharge power	CAN	RS485	Dry Contact	LCD
NC40	204.8	200	600*1000*1165	460	40.52KW/60min	Y	Y	Y	Y
NC60	307.2	200	600*1000*1500	680	60.78KW/60min	Y	Y	Y	Y
NC80	409.6	200	600*1000*2000	890	81.04KW/60min	Y	Y	Y	Y
NC100	512	200	600*1000*2000	1050	101.3KW/60min	Y	Y	Y	Y
NC120	614.4	200	600*1000*2000	1210	121.56KW/60min	Y	Y	Y	Y
NC140	716.8	200	600*1000*2300	1370	141.82KW/60min	Y	Y	Y	Y

Supports Two-wire UPS

Model	Voltage (V)	Capacity(Ah)	Dimension (W*L*H)	Weight(Kg)	Maximum discharge power	CAN	RS485	Dry Contact	LCD
NC40	204.8	200	600*1000*1165	460	40.52KW/60min	Y	Y	Y	Y
NC60	307.2	200	600*1000*1500	680	60.78KW/60min	Y	Y	Y	Y
NC80	409.6	200	600*1000*2000	890	81.04KW/60min	Y	Y	Y	Y
NC100	512	200	600*1000*2000	1050	101.3KW/60min	Y	Y	Y	Y
NC120	614.4	200	600*1000*2000	1210	121.56KW/60min	Y	Y	Y	Y

