GLOBAL **CERTIFICATION**

Each product can only reach users after undergoing rigorous "physical examination" such as safety testing/reliability testing/application testing.













MSDS **(£** UN38.3









RoHS

SHENZHEN CTECHI TECHNOLOGY CO., LTD.

www.ctechipower.com www.ctechibattery.com

Business cooperation: info@ctechi.com.cn

Headquarters Address: Jiada Industrial Park, Yanluo Street, Baoan District, Shenzhen





ONE-STOP ENERGY STORAGE SOLUTIONS Residential Energy Storage Commercial and Industrial Energy Storage





COMPANY **PROFILE**

SHENZHEN CTECHI TECHNOLOGY CO., LTD.

OUR STORY

Shenzhen CTECHi Technology Co., Ltd. is an energy storage expert with 20 years' experience in battery industry. We offer one-stop battery solutions as well as ODM, OEM, and SKD services, focusing on the R&D and manufacturing of a wide range of batteries, including energy storage systems, motive power batteries and digital & consumer batteries.

We have accumulated rich experiences on the energy storage solution through more than 30,000 customized cases, which enables us to provide tailored solutions and prompt responses to our clients' diverse needs. Whether you require small-quantity orders or full-service packages that includes shipping, certification and freight, we are committed to meeting your specific requirements.

With state-of-the-art facilities covering an area of 100,000+ square meters in Guangdong and Hunan provinces, CTECHi is committed to rigorous product production, strict quality control, precise testing and recognized international certification to ensure the high quality of products.

Thanks to our dedicated professional team, CTECHi has earned a solid reputation for innovation and reliability. We are committed to growing together with our customers by providing them with products and marketing strategies that meet their target markets, thereby supporting our customers expanding more market share, which is also in line with CTECHi's philosophy: Growth! Happiness! Respectable!

2

Manufacture Sites

1500+

Employees

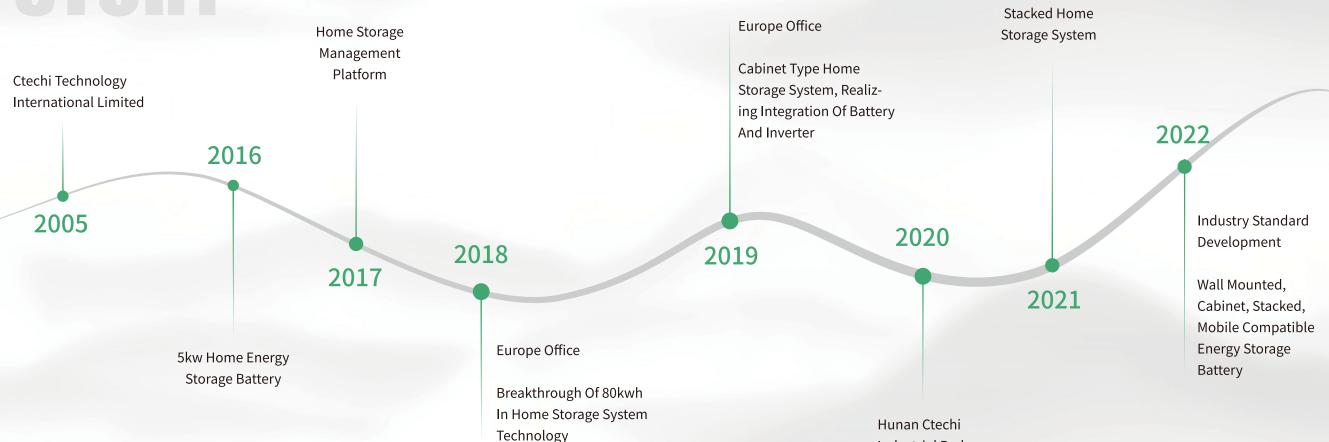
Industrial Park

300

100000 n

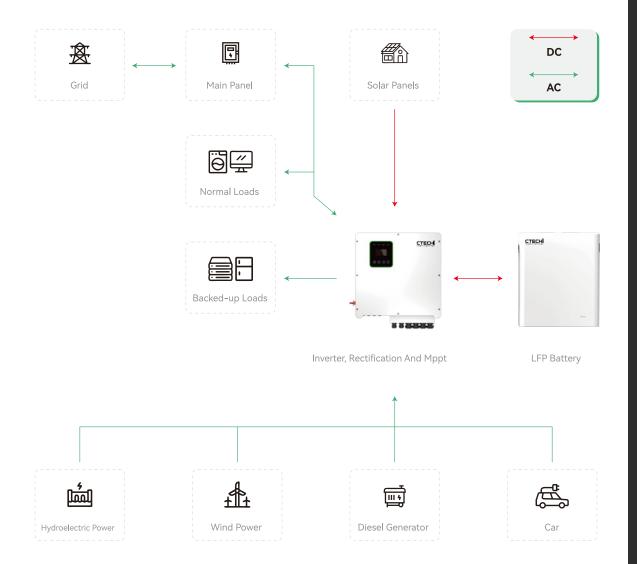
Senior Researchers

Production Base



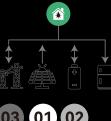
RESIDENTIAL **ENERGY STORAGE** SYSTEM SOLUTION

HYBRID SYSTEM



SOLAR PRIORITY MODE

In the solar priority mode, all power supply to the load is provided by solar energy. when the electricity generated by solar energy is enough to meet the user's load, solar energy supplies power to the load, and excess solar energy charges the battery pack. When the electricity generated by solar energy is not enough to meet the user's load, the battery pack will supple the power to the load. If the the battery level is less than 10%, the system will automatically switch to grid power to supply the load, and will activate grid power to charge the battery. At the same time, solar power will charge the battery until it is fully charged. After it is fully charged, the system will automatically switch to solar power and battery power to

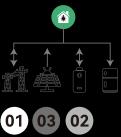






AC **PRIORITY MODE**

In AC (grid) priority mode, the power supply to the load is provided by the grid bypass input. when the battery is fully charged, AC(grid) only supply power to the user's load, When the battery level is severely low, AC (grid) not only supplies power to the user's load, but also starts to charge the battery, while solar energy charges the battery until it is fully charged. When AC (grid) power is cut off, the system will automatically switch to solar energy to supply power to the load.

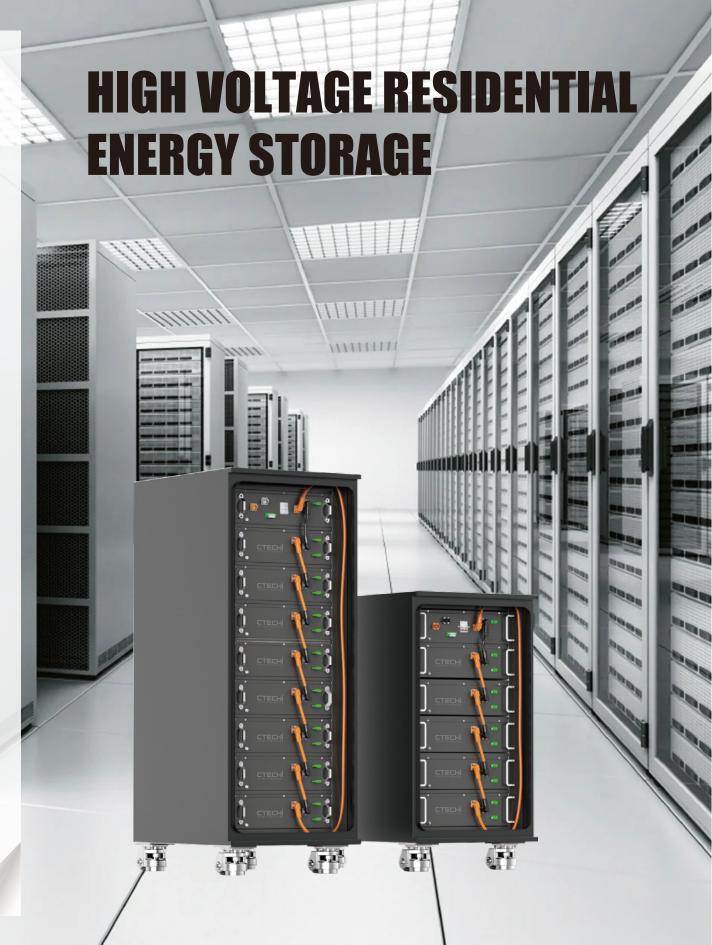


SE PRIORITY MODE (STAGGER OF POWER CONSUMPTION)

In SE mode, users can set the SE time, during SE time, the power supply of the load is provided by the grid bypass input, while the grid charges the battery and the solar energy charges the battery until it is fully charged. Outside of SE time, the load is powered by solar energy. When the electricity generated by solar energy is not enough to meet the user's load, the battery pack supplies the power to the load. When the battery level is less than 10%, the system will automatically switch to grid power to supply the load, and will activate grid power to charge the battery. At the same time, solar power will charge the battery until it is fully charged. After it is fully charged, the system will automatically switch to solar power and battery power to supply the load.

- Integrated design with flexible and variable module layout; small footprint, high energy density.easy maintenance.
- Uses (LiFePO4) modules, safe and reliable, with independent fire protection and fault warning management systems.
- Eauipped with separate liquid cooling and external exhaust systems for good cabinet temperature control.
- Supports remote monitoring, data transmission, cloud platform manageme, and multi-level user permissions.

PROJECT	SYSTEM PARAMETERS
Product Model	ES-320100
Battery Parameters	
Cell Type	LFP-100Ah
Battery Capacity	6.4KWH*N
Battery Voltage Range	(50~73V)*N
AC Grid Parameters	
Grid Type	Three-phase inverter
Rated Power	5~10KW
Rated Grid Voltage	380vAC
Grid Frequency	50Hz/60Hz
General Parameters	
Dimensions (L*D*H)	482*133*551mm
Communication Method	CAN/RS485/
Weight	50kg
Protection Level	IP54(battery pack)
Operating Temperature	-20~65°C
Humidity Range	0~95%(non-condensing)
Operating Altitude	<2000m
Noise	S75dB
Cooling Method	Natural cooling
Corrosion Protection Level	С3



RACK BATTERIES SERIES

- LARGE CAPACITY UP TO 80KWH
- O FULL-INTEGRATED LIFEPO4 BATTERY SYSTEM
- O UNIQUE THERMAL MANAGEMENT O SUPPORTS IP53 PROTECTION CUSTOMIZED







ITEMS

SPECIFICATIONS

Energy:	2.56KWH	5.12KWH	7.68KWH	10.24KWH
Nominal Voltage:	51.2V	51.2V	51.2V	51.2V
Nominal Capacity:	50Ah	100Ah	150Ah	200Ah
Working Voltage Range:	40-57.6V	40-57.6V	40-57.6V	40-57.6V
Max. Chaging Current:	100A	100A	100A/150A	100A/200A
Max. Discharging Current:	100A	100A	100A/150A	100A/200A
Size (mm):	3U	3U/4U	3U/4U	5U
Depth:	380mm	380mm	680mm	540mm
Weight (kg):	24	45	68	96
Series:	16S	16S	16S	16S



STACKED BATTERIES SERIES

- LARGE CAPACITY UP TO 80KWH
- FULL-INTEGRATED LIFePO4 BATTERY SYSTEM

3 CTECHI

-00-00-

- UNIQUE THERMAL MANAGEMENT SUPPORTS IP53 PROTECTION CUSTOMIZED



ITEMS

Model No

Voltage

Capacity

Energy

Dimensions (LxWxH)

Weight

Life Times (25*C)

Life cycles (80% DoD, 25*C)

Storage Time / Temperature

Operation Temperature

Storage Temperature

Enclosure Protection Rating

Operation Voltage

Max.charging Voltage

Max.charging and Discharging Current

Max.Power

SPECIFICATIONS

CT-5KWh

51.2V

100Ah

5.12kwh

649.7x450x133mm

50kg

20 Years

5000 Cycles

5 months @25°C; 3 months @35°C; 1 month @45°C

-20°C to 60°C @60+/-25% Relative Humidity

 0° C to 45° C @60+/-25% Relative Humidity

IP31

40-57.6Vdc

58Vdc

100A

5120W



WALL MOUNTED SERIES

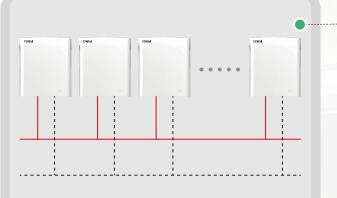
- LARGE CAPACITY UP TO 80KWH
- ON-GRID OR OFF-GRID
- UNIQUE THERMAL MANAGEMENT
- SUPPORTS IP53 PROTECTION CUSTOMIZED

ITEMS

SPECIFICATIONS

Model No	2.4KWH	5KWH	10KWH	WLPK15K
Voltage	48V	51.2V	51.2V	51.2V
Capacity	50Ah	100Ah	200Ah	280Ah
Energy	2.4KWH	5.12KWH	10.24KWH	14.33KWH
Dimensions (LxWxH)	L340*W450*H150mm	649.7x450x133mm	L470*W840*H150mr	m L840*W430*H230
Weight	24Kg	50kg	80Kg	115Kg
Life Cycles	5000 Cycles	5000 Cycles	5000 Cycles	6000 Cycles
Enclosure Protection Rating	IP53	IP53	IP53	IP53
Operation Voltage	37.5-54Vdc	40-57.6Vdc	40-57.6Vdc	40-57.6Vdc
Max.charging Voltage	56Vdc	58Vdc	58Vdc	58Vdc
Max.charging and Discharging Curre	ent 50A	100A	100A	200A

Storage Time / Temperature Operation Temperature Storage Temperature 5 months @25°C; 3 months @35°C; 1 month @45°C -20°C to 60°C @60+/-25% Relative Humidity 0°C to 45°C @60+/-25% Relative Humidity



UP TO 16 PARALLEL







ALL IN ONE WALL MOUNTED SERIES

- LARGE CAPACITY UP TO 80KWH
- UNIQUE THERMAL MANAGEMENT

- FULL-INTEGRATED LifePO4 BATTREY SYSTEM
- SUPPORTS IP53 PROTECTION CUSTOMIZED

ITEMS

Model No:

AC Output Rated Power:

AC Output Peak Power:

PV Max Input power:

Battery Voltage:

Battery Capacity:

Battery Energy:

Battery Working Voltage:

Protection Rating:

Life Cycles:

Dimention:

Weight:

SPECIFICATIONS

WT5KWL1-PK5.12K

WT5KWL1-PK10.24K

5KW

5KW

10KW

10KW

5.5KW

5.5KW

51.2V

51.2V

100Ah

200Ah

5.12KWH

10.24KWH

40-57.6Vdc

40-57.6Vdc

IP53

IP53

6000 Cycles

6000 Cycles

1199*515*150mm

1390*515*150mm

65Kg

Kg 105Kg



SUPPORT FOR CAN/R485 COMMUNICATION, ETC





ALL IN ONE HOME ENERGY STORAGE SYSTEM

- LARGE CAPACITY UP TO 80KWH
- ON-GRID OR OFF-GRID
- UNIQUE THERMAL MANAGEMENT
- SUPPORTS IP54 PROTECTION CUSTOMIZED

ITEMS

Energy Storage Battery Rated Capacity

Single Cell

Rated Output Power

Rated Output Voltage

Output Waveform

Rated Frequency

Mppt Number

Photovoltaic Maximum Input Power

Photovoltaic Maximum Input Current

Photovoltaic Maximum Open Circuit Voltage

Mppt Operating Voltage

Mains Input Voltage Range

Mains Input Frequency Range

Mains Bypass Overload Current

Battery Inverter Efficiency

Wi-Fi/Gprs

SPECIFICATIONS

16kwh

314ah

8kw

230vac Single Phase

Pure Sine Wave

50hz/60hz

2-Way

5500w+5500W

22a+22a

500cdc+500cdc

125~425vdc

90~275vac

50hz/60hz

63a

92%

Optional

PCS

Size (Height*Width*Thickness) Weight

Thermal Management

Protection Level

SPECIFICATIONS

1070*680*250 mm

About 130kg

Natural Cooling

IP54

STACKING SERIES

RESIDENTIAL ENERGY STORAGE SYSTEM

Standard cabinets, automatically based on internal intelligent programs.

Modular design, flexible for maintenance, installation and capacity extension.

O LARGE CAPACITY UP TO 160KWH

O UNIQUE THERMAL MANAGEMENT



	SLPK14.4K	SLPK19.2K	SLPK24K	SLPK28.8K	SLPK33.6K	SLPK38.4K	
Battery Moudle	3	4	5	6	7	8	
Battery system capacity	14.4KWH	19.2KWH	24KWH	28.8KWH	33.6KWH	38.4KWH	
Battery Chemitry			LFP				
Size(W/D/H)	442*520*650	442*520*820	442*520*998	442*520*1176	442*520*1354	442*520*1532	
Weight	135KG	179KG	223KG	267KG	311KG	355KG	
Single moudle DC Voltage			42-54	V			
Warranty			10Yea	rs			
Operating temperature range		Disc	charge:-20~60°C	, Charge:0~45°C			
Deep of discharge			95%)			
Cycle life			6000 Cy	cles			
Max charging/discharging current	75A(0.5C)	100A(0.5C)	125A(0.5C)	150A(0.5C)	175A(0.5C)	200A(0.5C)	



BALCONY STORAGE SYSTEM



- Super fast charging
- Efficient MPPT
- High efficiency of charging and discharging
- IP65 high protection design
 On-grid/Phase separation

- Smart operation of mobile APP
 Charging mode output protection
 Battery undervoltage wake-up (Mains/MPPT wake-up)

Excellent load adaptability

Adopting DSP digital control technology

TEMS	SPECIFICATIONS
Model	SLPK5120
Nominal Capacity	5120Wh
Nominal Voltage	51.2V
Working Voltage Range	43.2-57.6V
Standard Charging&discharging Current	20A(0.2C)
Max.Charging&discharging Current	100A
Battery Type	LiFePO4
Standard Discharge Temperature	-20~60°C
Dimension(WXDXH)	482x440x142.4mm
Weight	42kg
Warranty	5years

Balcon	y Storage Inverter	
Rated power		1600VA/1600W
Peak power(W)		3200
Machine architect	ure	Bidirectional AC/DC inverter Boosting and lowering pressure MPPT
Input/output phas	se number	Single phase input/Single phase output
	Number of output lines	Single phase two wire (L, N) + Protective ground wire
Output	Rated voltage (VAC)	220/230/240 50/60Hz ±0.1%(Settable, automatically detects mains frequency)
	Number of input lines	Single phase two wire (L, N) +Protective ground wire
Mains	Input voltage range(Vac)	Zero fire phase voltage: 184~253
input	Input frequency range(Hz)	48-51
	Input power factor	≥0.95
	Rated voltage of battery (V)	48
	Battery type	LiFePO4 16 strings, Ternary lithium14 strings
Battery and	Charging termination voltage (V)	56.8V/Continuing Adjust
charging	Discharge termination voltage(V)	44V/Continuing Adjust
	Charging current(A)	Max.25A, digitally adjustable, default 10A
	Max. PV input power(W)	800W*2
Solar	Max. PV open circuit voltage(VDC)	100
charging	PV operating voltage range(VDC)	10~100
	PV input current(A)	PV access MPPT working mode,16A max.
Solar	Number of MPPT	2
charging	PV charging current(A)	0-16A*2
On-grid	Optional function	On-grid power can be set to 0-1600W
	APP	The mobile APP manages and controls the on-grid time and power
Interface	Communication interface	Switch on and off command interface,RS485,CAN
	LCD display assau(Ontions)	Display input and output voltage, frequency, load percentage,
	LCD display screen(Options)	PV voltage and current, operating mode, and machine status
	Operating temperature range	-20~55°C
Environmental	Operating humidity range	0-98% (No condensation)
parameters	Cooling method	natural cooling
	Protection degree	IP65
Structural	Size(MM)	360 × 256× 130
Shape	Weight(kg)	7.5
Safety and electror	nagnetic	IEC/EN62109-1,IEC/EN62109-2/IEC/EN61000-6-1/-2/-3/-4,
compatibility stand		IEC/EN61000-3-2/-3/VDE4105

ALL-IN-ONE BACKUP POWER STATION

POWER YOUR HOME FOR DAYS

POWER PRETTY MUCH ANYTHING

888. 188. 888. 888.

ITEMS SPECIFICATIONS

LiFePO4 Battery Type

4992Wh (48V 104Ah 1560000mAh) Battery

Cycle Life 3500 Cycles

USB-C Output 5V/3A, 9V/2A, 12V/1.5A, 30W Max.

USB-A Output 2*5V/2.4A 12W Max.

AC Output 100V~120V/50Hz 60Hz 3600W Peak Power: 5000W

220V~240V/50Hz 60Hz 3600W Peak Power: 5000W

Input

3000W Max (Charger 2000 Max) Car Cigar Port/Solar Panel 12-100V 20A Max. 1000W (XT60)

Weight 66kg

Size 445x 278 x 622mm,

Charging Temperature 0°C~40°C

Discharge Temperature -10~ 40°C

CIG Output 1*12V/10A 120W Max.



SINGLE-PHASE ESS HYBRID INVERTER

- Supports automatic battery switching;
- Support diesel generator input source;
- Compatible with lead-acid and lithium-ion batteries;
- Parallel available, intelligent BMS management;
- Input power source priority can be set by users;
- Battery reverse connection protection, anti-power control function;



THREE PHASE ESS HYBRID INVERTER



- Compatible with lead-acid and lithium-ion batteries;
- Support diesel generator input source;
- IP65 protection, low noise < 35dB;</p>
- Battery reverse connection protection, anti-power control function
- Input power source priority can be set by users;
- Support full power discharge, automatic management of battery charge and discharge;

	Reside	ntial Energ	y Storage Inv	erters		
Technical specification	WH3KL1	WH5KL1	WH6KL1	WH8KL3	WH10KL3	WH12KL3
Input (PV)						
Max.power(KW)	4.6	7	7	10.4	13	15.6
Max. DC voltage(V)		550			1,000	
MPPT voltage range(V)		125~500			180~850	
Max.input current of single MPPT(A)		14			12.5	
MPPT tracker/strings		2/1		2/1	2/1	2/1
AC output		,				
Rated output power(kVA)	3	5	6	8.8	11	13.2
Max. output current(A)	13	21.7	26	12.7	15.9	19.1
Grid voltage/range(V)		230/176~27	0		400/360~440	
Frequency (Hz)		50 /60			50 /60	
Power factor	1	0.8lagging-0.8le	ading	0.	8lagging-0.8leadir	ng
THDi		<3%			<3%	
AC output topology		L+N+PE			3W+N+PE	
Battery					5.7.11.15	
Battery voltage range(V)		40~58			125~600	
Max. charging voltage(V)		58			600	
Full battery voltage(V)	95/62.2	95/104.2	95/110	210	270	250
Max. charge/discharge current(A)	33/02.2	33/104.2	33/110	40	40	50
Battery type		lithium /Lead-	acid		lithium /Lead-acid	
Communication Interface		CAN/RS485			CAN/RS485	
		CAN/R3463			CAN/R3463	
EPS output	3	5	6	8.8	11	13.2
Rated power(kVA)	3		0	8.8		15.2
Rated output voltage(V)	10	230	20	12.7	400	10.1
Max. output current(A)	13	21.7	26	12.7	15.9	19.1
Rated frequency(Hz)		50 /60			50 /60	
Automatic switching time(ms)		<20			<20	
THDu	1100/	<2%	1500/ 0.000	4400/ 04	<2%	0/ 0.000
Overload capacity	110%,	30S/120%, 10S/	150%, 0.025	110%, 30	0S/120%, 10S/150	%, 0.025
General data						
Battery charge /discharge efficiency		95.0%		96.6%	96.7%	96.8%
DC Max. efficiency		97.6%		97.9%	98.2%	98.2%
Europe efficienc		97.0%		97.2%	97.5%	97.5%
MPPT efficiency		99.9%		99.5%	99.5%	99.5%
ngress protection		IP65			IP65	
Noise emission(dB)		<35			<35	
Operation temperature		- 25°C∼ 60°	С		-25°C∼ 60°C	
Cooling		Natural			Natural	
Relative Humidity		95% (non-cond			% (non-condens	
Altitude	2,	000m(>2,000 De	rating)	2,00	00m (>2,000 Derat	ing)
Dimensions W * D * H (mm)		550*200*51	5		530*200*600	
Weight(kg)		25			29	
Isolation transformer		No			No	
Self-consumption(W)		<3			<3	
Display and communication						
Display		LCD			LCD	
Interface:RS485/Wifi/4G/ CAN/DRM	Υ	es/ Opt/ Opt/ Ye	es/ Yes	Yes	s/ Opt/ Opt/ Yes/ \	'es
Safety standard	IEC/EN	N62109-1/-2, IEC	/EN62477-1	IEC/EN6	2109-1/-2, IEC/EN	62477-1
EMC	IEC/EN	61000-6-1, IEC/E	EN 61000-6-3	IEC/EN 6	1000-6-1, IEC/EN 6	1000-6-3
On-grid	South Africa	a NRS097-2-1:20	17, UK G98,G99	Europe: EN505 UK: G99, Sout	49-1, Germany: \ h Africa: NRS097-	/DE4105/0124, -2-1:2017



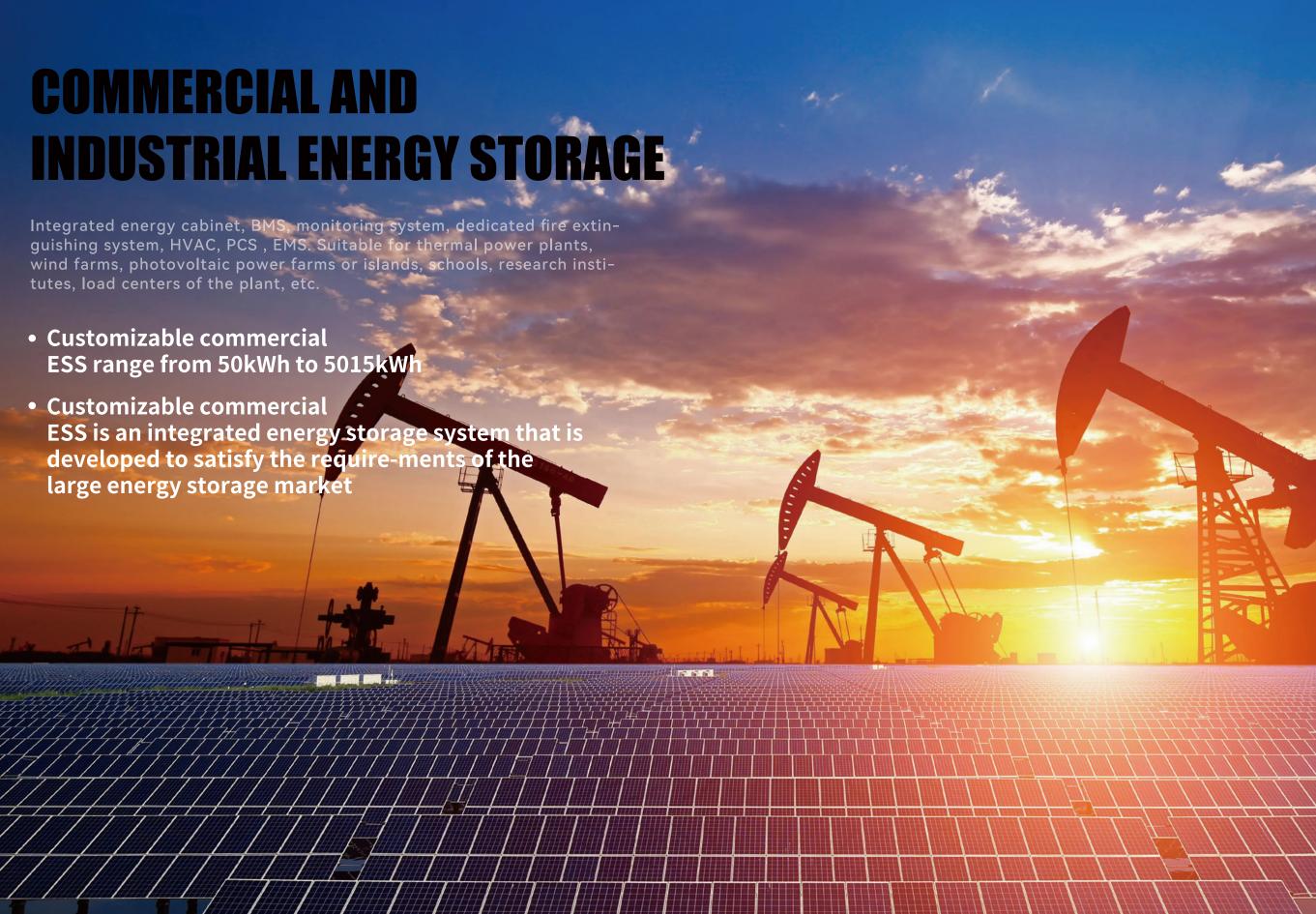


SERIES HIGH FREQUENCY INVERTER

- 450V high PV input
- Optional WIFI function
- Pure sine wave output, adaptable to different loads
- Higher solar charging efficiency and battery protection
- Working with or without battery

- Output power factor PF=1
- Parallel function to expansion power
- High frequency inverter, lighter weight with higher efficiency
- lithium battery activation start function with ac and solar mode

	Series High	Frequency Inver	rter Data Sheet		
	Phase		L+N+PE		
	Nominal Voltage		208/220/230/240VAC		
	Voltage Range	154-264VAC±3	V (Normal Mode) 185–2	264VAC±3V (UPS	
Input	Frequency Range		50Hz/60Hz(Adaptive)		
	Rated Power	3000W	5000W	10000W	
	Output Voltage(AC)	2	08/220/230/240VAC±5%		
	Output Frequency		50/60Hz±0.1%		
	Waveform		Pure sine wave		
Output	Transfer Time(Optional)	10ms for computer , 20ms for home appliances			
	Peak power	6000VA	10000VA	20000VA	
	Overload		Battery Mode: 1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 200ms@>150% Load		
	Peak efficiency (battery mode)	>94%	>94%	>94%	
	Rated voltage	24Vdc	48Vdc	48Vdc	
Battery	Constant voltage charging voltage	28.2Vdc	56.4Vdc	56.4Vdc	
	Floating charge voltage (Optional)	27Vdc	54Vdc	54Vdc	
	PV charging method	MPPT	MPPT	Double MPPT	
charger	PV max input power	3500W	5500W	5500W*2PCS	
	MPPT tracking range	120~430Vdc	120~430Vdc	120~450Vdc	
	Max PV input voltage	450Vdc	450Vdc	450Vdc	
	Max PV charging current	60A	120A	80A+80A	
	Max AC charging current	60A	120A	80A+80A	
	Max charging current	120A	120A	80A+80A	
Display	LCD display	Operatir	ng mode/load/input/outp	out, etc.	
Communication	RS232	5PIN	/Pitch2.0mm, baud rate 2	2400	
Communication port	Expansion & configuration port	2×5PIN/Pitch2.54mm WIFI card, dry contac	n, lithium battery BMS co ct card, etc.	mmunication card,	
	Parallel interface	No	Optional	No	
	Operating environment temperature		0~40°C		
Environmental parameters	Operating environment humidity	20	%~95%(Non condensin	g)	
parameters	Storage temperature		−15~60°C		
	Altitude	The altitude should r to 4000m, refer to IE	not exceed 1000m, derat C62040	ing above 1000m, up	
	noise		≤50db		
	Certifications	EN-IEC 603	35-1, EN-IEC 60335-2-2	9, IEC 62109-1	



- Integrated design with flexible and variable module layout; small footprint, high energy density, easy maintenance.
- Uses lithium iron phosphate (LiFePO4) power cells, with independent fire protection and fault warning management systems, ensuring safety and reliability.
- Supports user terminal monitoring to understand system operation.

PROJECT	SYSTEM PARAMETERS
Battery Cell	LFP,3.2V/100AH
Battery box	1P48S-153.6V100AH,15.36KWH
Battery box quantity	4pcs
System rated power	61.44kwh
System rated voltage	614.4v
System voltage range	520v~700v(2.7v~3.65v)
Charge and discharge rate	≤ 0.5C
Discharge Depth	95%
Communication interface	RS485/CAN
Cooling method	Intelligent air cooling
Fire protection system	Aerosol Adhesive
	/terboor/temberre
PCS	
Rated power	30KW
AC current harmonics	<5% (rated power)
DC component	<0.5%
Rated grid voltage	230V/400V
Grid voltage range	-20%~15 %
Rated grid frequency	50/60Hz
Maximum efficiency	97.8%
Wiring method	Three-phase four-wire
Communication interface	RS485/CAN
Grid-connected switching	Supports on-grid and off-grid switching , with built-in STS (switching time <5mS)
MPPT	
Rated power	19.2KW+19.2KW
PV side voltage	250~700V
Maximum efficiency	>99%
SYSTEM	
Installation Location	Outdoor installation (it is recommended to build a canopy)
Protection level	IP55
Corrosion resistance	none
Operating humidity range	5~95% (no condensation)
	-20~60 °C
Operating temperature range	
Operating temperature range Maximum operating altitude	3000m (>2000m derating)

STANDARD ENERGY STORAGE CABINET



- Integrated design with flexible and variable module layout; small footprint, high energy density, easy maintenance.
- Uses lithium iron phosphate (LiFePO4) power cells, with independent fire protection and fault warning management systems, ensuring safety and reliability.
- Supports user terminal monitoring to understand system operation.

PROJECT	SYSTEM PARAMETERS
Battery Cell	LFP,3.2V/314AH
Battery box	1P36S-115.2V/,36.17KWH
Battery box quantity	3pcs
System rated power	108.52kwh
System rated voltage	345.6v
System voltage range	291.6v~394.2v(2.7v~3.65v)
Charge and discharge rate	≤ 0.5C
Discharge Depth	95%
Communication interface	RS485/CAN
Cooling method	Intelligent air cooling
Fire protection system	Aerosol Adhesive
PCS	
Rated power	50KW
AC current harmonics	<5% (rated power)
DC component	<0.5%
Rated grid voltage	230V/400V
Grid voltage range	-20%~15 %
Rated grid frequency	50/60Hz
Maximum efficiency	97.8%
Wiring method	Three-phase four-wire
Communication interface	RS485/CAN
Grid-connected switching	Supports on-grid and off-grid switching , with built-in STS (switching time <5mS)
MPPT	
Rated power	38.4KW+38.4KW
PV side voltage	250~700V
Maximum efficiency	>99%
SYSTEM	
Installation Location	Outdoor installation (it is recommended to build a canopy)
Protection level	IP55
Corrosion resistance	none
Operating humidity range	5~95% (no condensation)
Operating temperature range	-20~60 °C
Maximum operating altitude	3000m (>2000m derating)
Dimensions (length*width*height)	880*1050*1600
weight	About 1000kg

STANDARD ENERGY STORAGE CABINET



- Integrated design with flexible and variable module layout; small footprint, high energy density, easy maintenance.
- Uses lithium iron phosphate (LiFePO4) power cells, with independent fire protection and fault warning management systems, ensuring safety and reliability.
- Supports user terminal monitoring to understand system operation.

PROJECT	SYSTEM PARAMETERS
Battery type	LFP,3.2V/280AH
Battery module	16S1P-51.2V280AH,14.336KWH
Number of battery modules	3pcs
Rated capacity	43kwh
Rated voltage	51.2v
Voltage range	41.6v~58v(2.6v~3.65v)
Charge and discharge rate	≤0.5C
Discharge depth	95%
Communication interface	RS485/CAN
Cooling method	Natural air cooling
Fire protection system	None
PCS	
Rated power	10KW*2 (single-phase inverter)
Input source	L+N+PE
Voltage	220V/230V/240VAC
Frequency	50/60Hz
Output voltage	220V/230V/240VAC±5%
Rated grid frequency	50/60Hz±0.1%
Maximum efficiency	98%
Waveform	Pure sine wave
Communication interface	RS485/CAN
Grid switching	Optional grid-connected function
MPPT	
Rated power	2*5500W (dual circuit)
PV side voltage	90~500V (optimal voltage 300~400V)
Maximum current	150A
SYSTEM	
Installation location	Indoor
Protection level	IP55
Display	LCD display: operation mode/load/input/output, etc.
Operating humidity range	20~95% (non-condensing)
Operating temperature range	-20~60℃
Maximum operating altitude	4000m (>1000m derating)
Dimensions (length * width * height)	



PROJECT	SYSTEM PARAMETERS	REMARK
Battery Type	LFP,3.2V/280AH/300Ah/314Ah	
Battery Box	48S1P-153.6V280AH/300Ah/314Ah,43Kwh/46Kwh/48Kwh	
Battery Box Quantity	5pcs	
Rated Power	215Kwh/230Kwh/241Kwh	
Rated Voltage	768V	
Voltage Range	648V~876(2.7v~3.65v)	
Charge And Discharge Rate	≤ 1C	
Discharge Depth	90%	
Communication Interface	RS485/CAN	
Cooling Method	Intelligent Air Cooling	
PCS Parameters		
PCS		
Operating Voltage Range	615~950V(3W+PE)/650~950 V(3W+N+PE)	
Full Load Voltage Range(V)	615-950V(3W+PE)/680~950 V(3W+N+PE)	2001
Input Circuit	1	DC Side
Maximum Current	170A	
Rated Voltage	230/400 V	
Voltage Deviation	-15%~+15%	
AC Output Type	(3W+PE)Three-Phase Three-Wire/(3W+N+PE)Three-Phase Four-Wire	
Rated Output Power	105KW	
Maximum Qutput Power	116KW	
Maximum Current	167A	
Rated Grid Frequency	50/60Hz	AC Side
Power Factor	0.99	(Grid-Connected)
Power Factor Range	1 (Leading)~1(Lagging)	
Current Distortion Rate	<2% (Rated Power)	
DC Component	0.5%	
Overload Capacity	110% Long Term	
Maximum Efficiency	98.5%	
Rated Output Voltage	230/400 V	
AC Voltage Harmonics	3%(Linear Load)	
Rated Frequency	50/60 Hz	
Rated Output Power	105KW	AC Side
Maximum Apparent Power	116KW	(Off-Grid)
Maximum Output Current	167A	

SYSTEM PARAMETERS

Installation Location	If You Need To Install It Outdoors, You Need To Build A canopy.	
Protection Level	IP54	
Corrosion Resistance	None	
Operating Humidity Range	0~95%(No Condensation)	
Operating Temperature Range	-20~60 °C	
Maximum Operating Altitude	3000m(>2000m Derating)	
Cooling Method	Strong Exhaust	
Dimensions (W*D*H)	2050*1602*1555	
Weight	2000Kg	
	-47 JHA A 19 AM A 19 A	



- Adopting an integrated design, the functional modules are flexibly arranged; with a small footprint, high energy density, and easy maintenance.
- Compatible with CAN and RS485 communication, it matches various brands of inverters, richly meeting customer needs
- Supports user terminal monitoring to understand system operation status.

PROJECT	SYSTEM PARAMETERS	
Product Model	EC-100-50	
Battery Parameters		
Cell Type	LFP-280Ah	
System Configuration	1P112S	
Battery Capacity	100KWH	
Battery Voltage Range	280~408.8V	
AC Grid Parameters		
Grid Type	Hybrid Inverter	
Rated Power	50KW	
Rated Grid Voltage	380VAC	
Grid Frequency	50Hz/60Hz	
Rated Current	140A	
General Parameters		
Dimensions (L*D*H)	1090*830*1210mm	
Communication Method	CAN/RS485/Ethernet	
Protection Level	IP20	
Operating Temperature	-30~55℃	
Cooling Method	Air Cooling	
Humidity Range	0~95%(non-condensing)	
Operating Altitude	<2000m	
Noise Level	≤75dB	
Corrosion Level	СЗ	





ITEMS

SPECIFICATIONS

Model
Maximum Power at STC
Optimum Operating Voltage (Vmp)
Open-Circuit Voltage (Voc)
Optimum Operating Current (Imp)
Short-Circuit Current(Isc)
Operating Temperature
Maximum Series Fuse Rating
Maximum System Voltage
Output Cable
Weight
Dimensions

CTMONO200 CTMONO100 100W 200W 19.2V 20.4V 23V 24.3V 10.42A 491A 11.05A 5.21A -40°C-85°C(-40°F-185°F) 20A 600V DC 15A 0.79m(2.6ft) 600V DC 0.6m(1.97ft) 12kg(26.46lbs) 6.4 kg(14.1 lbs) 1491x 699 x35 mm 1062x 530x35 mm (58.7 x 27.5 x 1.38 in) (41.8 x 20.9 x 1.38 in)

SPECIFICATIONS

CTMONO550	CTMONO600	CTMONO650
550W	600W	650W
42.71V	34.4V	37.4V
50.14V	41.5V	37.3V
12.88A	17.45A	17.39A
13.68A	18.52A	18.44A
25A	30A	30A
1000/1500V DC	1000/1500V DC	1500V DC
0.2m(0.65ft)	0.2m(0.65ft)	0.2m(0.65ft)
28.3kg(62.39lbs)	30.9 kg / 68.12 lbs	33.6 kg / 74.07 lbs
2278 x1134 x35 mm	2172 x 1303 x35 mm	2384 x1303 x35 mm
(89.68 x 44.64 x1.38 in)	(85 x51.29 x1.38 in)	(93 x 51.29 x 1.38 in)



THERE IS SUNNY
THERE IS POWER



PRODUCT

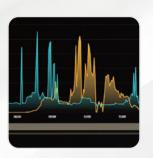
FEATURES



SEC (Smart Energy Control)

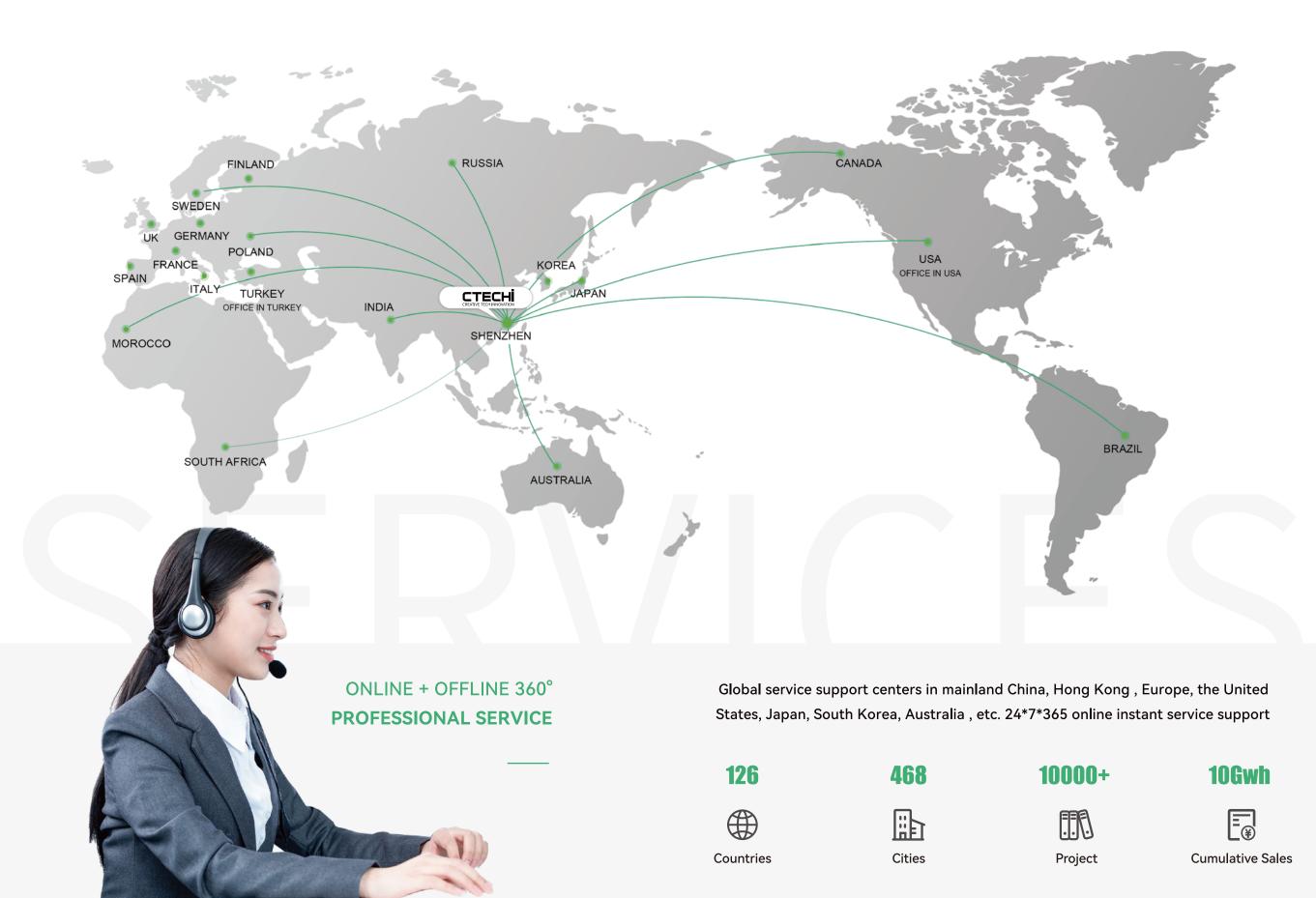


All Using
Lithium Iron Phosphate



Operation And Maintenance
Monitoring Platform





RICH GLOBAL EXPERIENCE IN LARGE-SCALE ENERGY STORAGE PROJECTS



China tower mobile base station power supply

2018 , undertook the power supply project of China Tower Mobile Base Station located in western Guangdong. This is the company's first large-scale project in the true sense. After repeated surveys and discussions, the project team finally output 48V50Ah/100Ah/150Ah/200Ah power supply solutions for China Tower mobile base stations .



Royal academy off-grid energy storage system

The Royal College, also known as Imperial College, was founded in 1907 in London, England, by Queen Victoria and Prince Albert in 1845, the Royal Academy of Sciences and the British Empire Institute, the Royal College of Mines, London City and Guild College of the amalgamation, was a member of the University of London.2020, based on years of deep cultivation and accumulation in the industry, the company has reached a cooperation with the Royal Academy of England, and the company will provide it with a 50KWh off-grid energy storage system to meet its daily power reserve.



2021

Undertook US hotel backup 1MW/2MWh power system



2019

Undertook African 150KWh solar energy storage projects



2019

Undertook Villa energy storage power supply 200KWh system in Zimbabwe