



**CTECHi**  
CREATIVE TECH INNOVATION

# HOME SOLAR ENERGY STORAGE

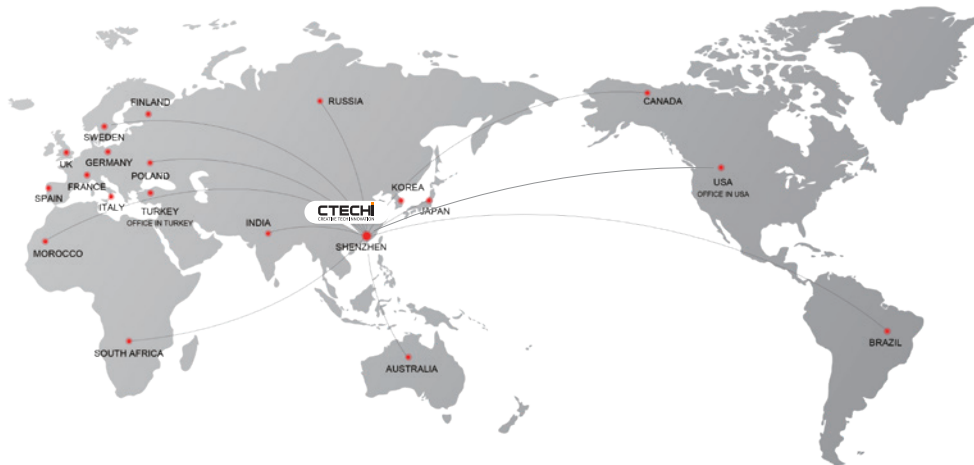
With Light, With Wind, With Water  
With Power



18 YEARS FOCUS ON  
ENERGY STORAGE



326 PROFESSIONAL TESTS



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Industrial  
Park in Hunan

**CTECHI**  
CREATIVE TECH INNOVATION

## COMPANY PROFILE

CTECHi is a portable power station manufacturer and smart energy solutions provider with over 18 years of experience in this industry. Available portable power stations range between 200w to 15000w.

CTECHi was founded by a team of new smart energy professionals in 2005. Now, with more than 18 years of working experience in the lithium battery industry, our team is focused on providing the best smart energy solutions built for today and for the future. We are committed to designing better battery solutions, providing exceptional service, and manufacturing high-quality smart energy products that leave a better impact on the lives of people and the environment.

Lithium battery innovation creates development possibilities for many different projects and brings more convenience to everyone's life. Smart product development requires multiple system integrations and effective teamwork, and our team was formed to meet this market demand.

CTECHi powering your life, anywhere, anytime.



### Flexible installation

Support both floor-mounted and wall-mounted installation



### Easy Maintenance

External interface with plug-in design, less maintenance



### Premium Safety

LFP cells with BMS monitoring system ensure high safety

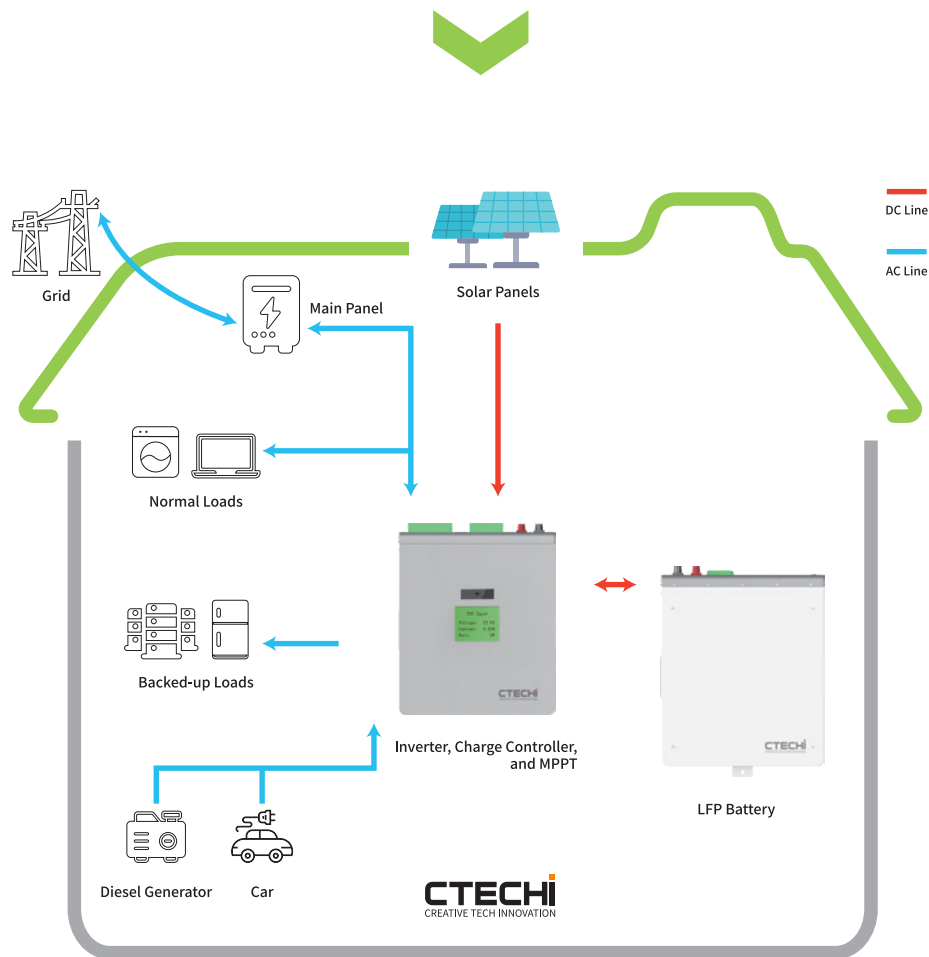


### Multiple Application

Applicable for peak-shifting, solar integration, back-up power etc.



# RESIDENTIAL ENERGY STORAGE SYSTEM



## ITEMS

## SPECIFICATIONS

Model No	CT-5KWh
Voltage	51.2V
Capacity	100Ah
Energy	5.12kwh
Dimensions (LxWxH)	649.7x450x133mm
Weight	50kg
Life Times (25°C)	20 Years
Life Cycles (80% DOD, 25°C)	5000 Cycles
Storage Time / Temperature	5 months @25°C; 3 months @35°C; 1 month @45°C
Operation Temperature	-20°C to 60°C @60+/-25% Relative Humidity
Storage Temperature	0°C to 45°C @60+/-25% Relative Humidity
Enclosure Protection Rating	IP31
Operation Voltage	40-57.6Vdc
Max.charging Voltage	58Vdc
Max.charging and Discharging Current	100A
Max.Power	5120W



## RESIDENTIAL ENERGY STORAGE SYSTEM

### BATTERY MODULE ARRAY

Moudle	CT-P7680	CT-P010K	CT-P013K	CT-P015K	CT-P018K	CT-P020K
Battery Moudle	3	4	5	6	7	8
Battery system capacity	14.4KWH	19.2KWH	24KWH	28.8KWH	33.6KWH	38.4KWH
IP Protection	IP54					
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	42-54V					
Warranty	10Years					
Operating temperature range	Discharge:-20~60°C, Charge:0~55°C					
Deep of discharge	90%					
Cycle life	5000 Cycles					
Max charging/discharging current	75A(0.5C)	100A(0.5C)	125A(0.5C)	150A(0.5C)	175A(0.5C)	200A(0.5C)



## RESIDENTIAL ENERGY STORAGE SOLUTION



**01** All devices are integrated into standard cabinets, they operate automatically based on internal intelligent programs.

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

**03** Uses long cycle life LiFePO4 battery, providing high performance.

**04** Provides a continued power supply in the event of a main grid failure.

**05** Effectively using solar and battery energy to save money over the very highly priced grid electricity power.

**06** Suited for remote areas where there is no main grid or areas where the grid is unstable.

**07** PV smoothing function, helps to reduce the impact of instable solar.

### Battery Module Unit

Energy	5.12KWH
Nominal Voltage	48V
Nominal Capacity	100Ah
Working Voltage Range	40-57.6V
Max. Charging Current	10A
Max. Discharging Current	100A
Size (mm)	4U Depth: 380mm
Weight (kg)	40.7
Series	16S

### Battery Module Array

Model	19034-CT-48V 30KWH	19035-CT-48V 50KWH
Energy	30.72KWH	51.2KWH
Nominal Voltage	51.2V	51.2V
Nominal Capacity	600Ah	1000Ah
Working Voltage Range	40-57.6V	40-57.6V
Max. Charging Current	600A	1000A
Max. Discharging Current	200A	200A
Size (mm)	19in,32U	19in,48U Depth: 800mm
Weight (kg)	280	450
Parallel	6P	10P

### Battery Module System

Model	19034-CT-48V 30KWH	19035-CT-48V 50KWH
Energy	30.72KWH	51.2KWH
Nominal Voltage	51.2V	51.2V
Nominal Capacity	600Ah	1000Ah
Working Voltage Range	40-57.6V	40-57.6V
Size (mm)	19in,38U Depth 800mm	19in,48U Depth 800mm
Weight (kg)	325	500
Inverter Output Power	5KW	10KW
Inverter Output Voltage	110-240V	110-240V



**POWER YOUR HOME FOR DAYS.  
POWER PRETTY MUCH ANYTHING.**

ITEMS	SPECIFICATIONS
Battery Type	LiFePO4
Battery	4992Wh (48V 104Ah 1560000mAh)
Cycle Life	5000 Cycles
USB Output	2*5V/2.4A 12W Max.
USB-C Output	5V/3A, 9V/2A, 12V/1.5A, 20W Max.
CIG Output	1*12V/10A 120W Max.
AC Output	100V~120V/50Hz 60Hz 3600W Peak Power: 5000W 220V~240V/50Hz 60Hz 3600W Peak Power: 5000W
Input	Charger 3000W 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



4992Wh  
PT3600

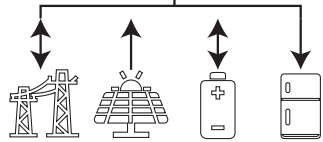
9984Wh  
PT3600+DT5000

14976Wh  
PT3600+DT5000\*2

29952Wh  
PT3600+DT5000\*4

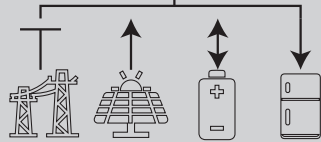
# ALL-IN-ONE BACKUP POWER STATION





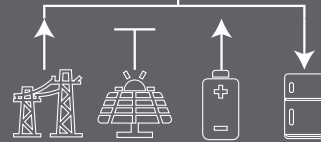
## Daylight

The consumers are supplied or respectively protected by the photovoltaic system and the battery system. If this energy is not sufficient, the missing power can be drawn from the grid. Priority is always given to the direct own consumption of the self-generated solar power and afterward stored in the battery. Any excess energy can be fed into the public grid for income generation.



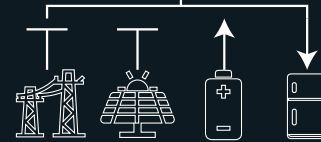
## Afternoon

In the event of a power failure during the day, the solar power is used without restriction. The battery system automatically switches the photovoltaic system to off-grid operation and supplies all 3 phases of the house with three-phase current. In off-grid operation, both the house can be supplied with solar power and the battery can be charged. All consumers on the emergency power path are supplied from a combination of solar and battery power completely self-sufficiently and without interruption.



## Evening

In the evening, the stored battery power is used to supply the house. If this energy is not sufficient, the public grid can be used at any time for additional supply.



## Midnight

In the event of a power failure in the evening, just like during the day, CTECH1 ensures the unique all-round protection. Uninterrupted switchover to battery operation (emergency power operation) and supply of all 3 phases of the house with three-phase current until the battery is empty.