
CTECHI
CREATIVE TECH INNOVATION
SHENZHEN CTECHI TECHNOLOGY CO., LTD.
FOUNDED IN 2005, PROVIDING ONE-STOP BATTERY SERVICES AND SOLUTIONS

Integrated Storage and Charging System-CT-EC-120/60

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Product Features

- AC-DC integrated design, modular function, supports energy storage and charging station scenarios.
- Uses LiFePO4 power cells with independent fire protection and fault warning management systems, ensuring safety and reliability.
- Equipped with separate liquid cooling and external exhaust systems for good cabinet temperature control.
- Supports data transmission, cloud platform management, and multi-level user permissions.

Applications:
Highway service areas, parking lots, old community charging stations, industrial park microgrids, solving insufficient distribution capacity and peak-valley arbitrage issues.
Note: The charging system requires custom development.

Project	System Parameters:
Product Model	CT-EC-120/60
Battery Parameters	
System Configuration	2P192S
Battery Capacity	120KWH
Battery Voltage Range	499~700V
Charging Gun Parameters	
Charging Power	Single gun 120 kWh / Dual gun 60 kWh
Output Current	0~100A/gun
Output Voltage Range	150~750VDC
AC Grid Parameters	
Grid Type	3P4W
Rated Power	60KW
Rated Grid Voltage	400VAC
Grid Frequency	50Hz/60Hz
Rated Current	150A
General Parameters	
Dimensions (L*D*H)	1250*850*2020mm
Weight	1800kg
Protection Level	IP54
Operating Temperature	-20~60℃
Cooling Method	Liquid cooling for battery compartment, air cooling for electrical compartment
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Noise	⩽75dB
Corrosion Level	C3

Standard Energy Storage Cabinet-CT-ES-215-100AC

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Product Features

- 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.
- Equipped with separate liquid cooling and external exhaust systems for good cabinet temperature control.
- Supports remote monitoring, data transmission, cloud platform management, and multi-level user permissions.

Applications:
Commercial and industrial energy storage applications

Fire Protection Configuration:Combustible gas/smoke/temperature detection + total flooding gas fire suppression (perfluoroketone) + water fire protection

Project	System Parameters
Product Model	CT-ES-215/AC
Battery Parameters	
Cell Type	LFP-280Ah
System Configuration	1P240S
Battery Capacity	215KWH
Battery Voltage Range	672~864V
Temperature Control Method	Liquid cooling
AC Grid Parameters	
Grid Type	3P3W
Rated Power	100KW
Rated Grid Voltage	400VAC（340~440V）
Power Factor Adjustable Range	－1~1
Grid Frequency	50Hz/60Hz
Rated Current	250A
General Parameters	
Dimensions (L*D*H)	1500*1450*2250mm
Communication Method	CAN/RS485/Ethernet
Weight	2000kg
Protection Level	IP54
Operating Temperature	-20~55℃
Cooling Method	Liquid cooling for battery compartment, air cooling for electrical compartment
Humidity Range	0~95%(non-condensing)
Operating Altitude	＜2000m
Noise	≤75dB
Corrosion Level	C3

Standard Energy Storage Cabinet -CT-EC-100-50

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Product Features

- 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.

Applications:
Small industrial, residential energy storage, data centers, banks, etc.

Project	System Parameters
Product Model	CT-EC-100-50
Battery Parameters	
Cell Type	LFP-150Ah
System Configuration	1P208S
Battery Capacity	99.84KWH
Battery Voltage Range	520~759.2V
AC Grid Parameters	
Grid Type	3P4W
Rated Power	50KW
Rated Grid Voltage	400vC
Grid Frequency	50Hz/60Hz
Rated Current	75A
General Parameters	
Dimensions (L*D*H)	770*1000*1930mm
Communication Method	CAN/RS485/Ethernet
Protection Level	IP53
Operating Temperature	-30~55℃
Cooling Method	Natural cooling
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Noise	≤75dB
Corrosion Level	C3

Standard Energy Storage Cabinet-CT-EC-100-50

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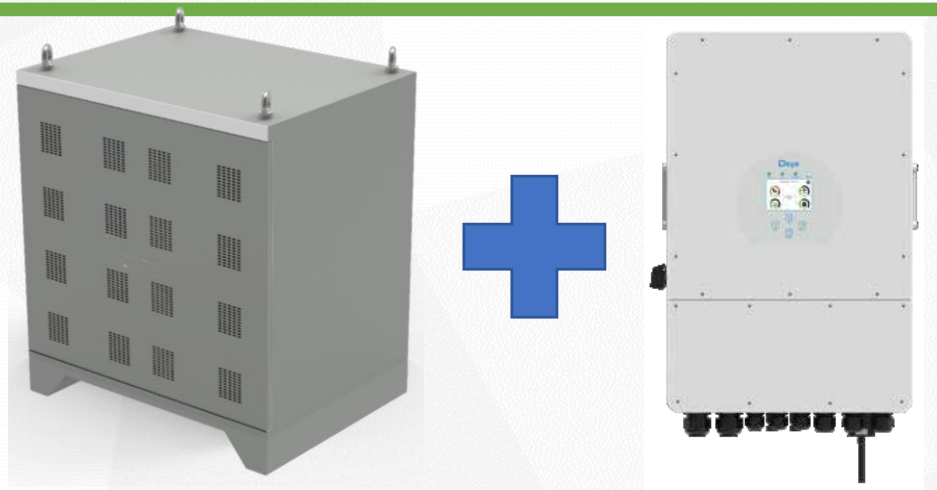

Product Features

- 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.

Applications:
Small industrial, residential energy storage, data centers, banks, etc.

Project	System Parameters
Product Model	CT-EC-100-50
Battery Parameters	
Cell Type	LFP-280Ah
System Configuration	1P112S
Battery Capacity	100KWH
Battery Voltage Range	280~408.8V
Grid Connection	
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 Protection	C3

Low Voltage Residential Energy Storage-CT-ES-48100*N

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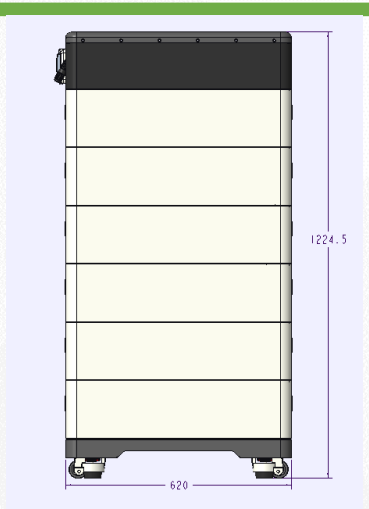

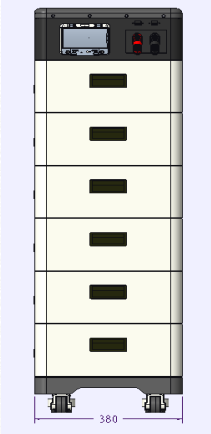

Product Features

- Adopts an overall stacked design, with 5KWH as a capacity unit. Users can stack according to their own power needs, easy to install.
- Compatible with CAN and RS485 communication, matching various brands of inverters, rich to meet customer needs.
- Supports user terminal monitoring to understand the system operation status.

Application:
Residential energy storage, computer rooms, data centers, banks, etc.

Project	System Parameters
Product Model	CT-ES-48100*N
Battery Parameters	
Cell Type	LFP-100Ah
Battery Capacity	5.12KWH*N
Battery Voltage Range	(40~58.4V)*N
AC Grid Parameters	
Grid Type	Single-phase inverter
Rated Power	5~10KW
Rated Grid Voltage	220vAC/110VAC
Grid Frequency	50Hz/60Hz
General Parameters	
Dimensions (L*D*H)	
Communication Method	CAN/RS485/
Weight	(50kg)*N
Protection Level	IP54
Operating Temperature	-20~65℃
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Noise	≤75dB
Cooling Method	Natural cooling
Corrosion Protection Level	C3

High Voltage Residential Energy Storage-CT-ES-64100*N

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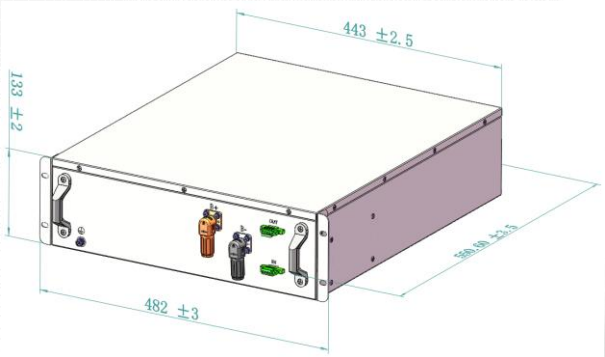

Product Features

- Adopts an overall stacked design, with 6.4KWH as a capacity unit. Users can stack according to their own power needs, up to 8 layers.
- Compatible with CAN and RS485 communication, matching various brands of inverters, rich to meet customer needs.
- Supports user terminal monitoring to understand the system operation status.

Application:
Residential energy storage, computer rooms, data centers, banks, etc.

Project	System Parameters
Product Model	CT-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℃
Humidity Range	0~95%(non-condensing)
Operating Altitude	＜2000m
Noise	≤75dB
Cooling Method	Natural cooling
Corrosion Protection Level	C3

High Voltage Battery Pack System-CT-EV-384V125Ah

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Product Features

- Custom-designed high voltage box.
  Suitable for various power conditions.
- Automotive-grade BMS with integrated national standard DC fast charging communication protocol.
- Three-level fault warning strategy; integrates SOC, SOH, SOP software strategies with high accuracy.

Application: electric vehicles, work vehicles, boats, etc.

Project	System Parameters
Product Model	CT-EV-384V125Ah
Battery Parameters	
Cell Type	LFP-125Ah
System Configuration	1P120S－384V
Battery Capacity	48KWH
Battery Voltage Range	324~438V
Single Cell Voltage Range	2.7V~3.65V
Capacity Utilization Ratio	95%
Nominal Working Current	1C
Peak Working Current	3C/5s
General Parameters	
Dimensions (L*D*H)	1100*685*220mm
Communication Method	CAN
Weight	877kg
Protection Level	IP67
Operating Temperature	-30~60℃
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Charging Method	National Standard Charging
Cooling Method	Natural Cooling/Heating Film

High Voltage Battery Pack System-CT-EV-604V208Ah

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Product Features

- Custom-designed high voltage box.
  Suitable for various power conditions.
- Automotive-grade BMS with integrated national standard DC fast charging communication protocol.
- Three-level fault warning strategy; integrates SOC, SOH, SOP software strategies with high accuracy.

Application: power system requirements for new energy vehicles and other applications.

Project	System Parameters
Product Model	CT-EV-604V208Ah
Battery Parameters	
Cell Type	LFP-104Ah
System Configuration	2P189S – 604V
Battery Capacity	125.8KWH
Battery Voltage Range	492~689V
Single Cell Voltage Range	2.6V~3.65V
Capacity Utilization Ratio	95%
Nominal Working Current	1C
Peak Working Current	3C/5s
General Parameters	
Dimensions (L*D*H)	1074*640*135mm
Communication Method	CAN
Weight	910kg
Protection Level	IP67
Operating Temperature	-200~55℃
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Charging Method	National Standard Charging
Cooling Method	Liquid cooling

High Voltage Battery Pack System-CT-EV-51.2V460Ah

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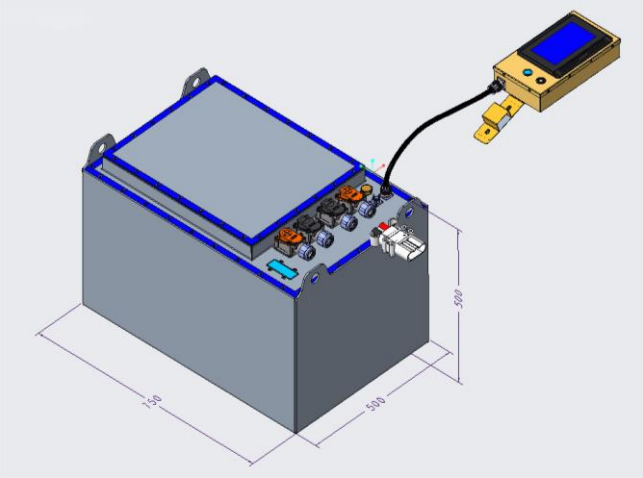

Product Features

- Professional customized design, customized size, connection method, communication protocol, etc.
- Adopting automotive-grade BMS; supporting CAN/485 communication, remote positioning and monitoring, supporting national standard fast charging, etc.
- Secondary-level fault warning strategy; integrates SOC, SOH, SOP software strategies with high accuracy.

Application: forklift

Project	System Parameters
Product Model	CT-EV-51.2V460Ah
Battery Parameters	
Cell Type	LFP-230Ah
System Configuration	2P16S – 51.2V
Battery Capacity	23.5KWH
Battery Voltage Range	40~58.4V
Single Cell Voltage Range	2.7V~3.65V
Capacity Utilization Ratio	95%
Nominal Working Current	1C
Peak Working Current	3C/30s
General Parameters	
Dimensions (L*D*H)	750*500*500mm
Communication Method	CAN/485
Weight	260kg
Protection Level	IP67
Operating Temperature	-30~60℃
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Charging Method	Automatic charging/Dedicated charger/National standard charging
Cooling Method	Natural Cooling

High Voltage Battery Pack System-CT-EV-83.2V460Ah

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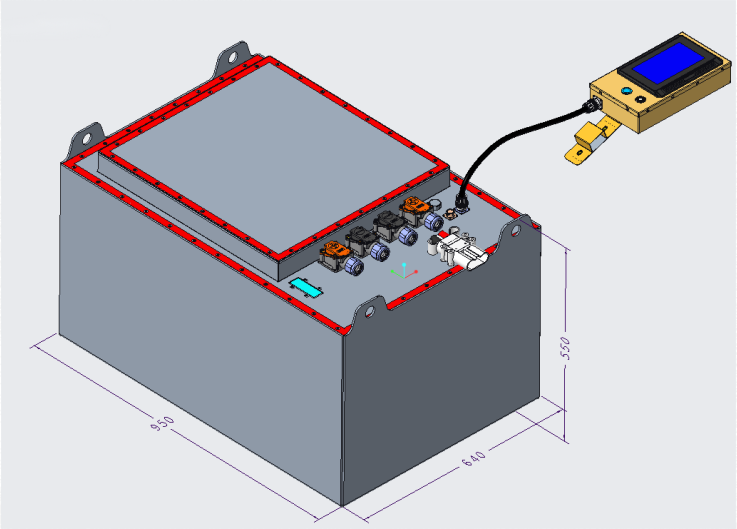

Product Features

Professional customized design, customized size, connection method, communication protocol, etc.

Adopting automotive-grade BMS; supporting CAN/485 communication, remote positioning and monitoring, supporting national standard fast charging, etc.

Secondary-level fault warning strategy; integrates SOC, SOH, SOP software strategies with high accuracy.

Application: forklift

Project	System Parameters
Product Model	CT-EV-83.2V460Ah
Battery Parameters	
Cell Type	LFP-230Ah
System Configuration	2P26S – 83.2V
Battery Capacity	38.3KWH
Battery Voltage Range	65~94.9V
Single Cell Voltage Range	2.7V~3.65V
Capacity Utilization Ratio	95%
Nominal Working Current	1C
Peak Working Current	3C/30s
General Parameters	
Dimensions (L*D*H)	950*640*550mm
Communication Method	CAN/485
Weight	385kg
Protection Level	IP67
Operating Temperature	-30~60℃
Humidity Range	0~95%(non-condensing)
Operating Altitude	< 2000m
Charging Method	Automatic charging/Dedicated charger/National standard charging
Cooling Method	Natural Cooling

Power Battery System -CT-EV-Golf Cart

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Project	System Parameters	System Parameters	System Parameters	System Parameters	System Parameters
Product Model	CT-EV-51.2V80Ah	CT-EV-51.2V105Ah	CT-EV-51.2V120Ah	CT-EV-51.2V160Ah	CT-EV-76.8V200Ah
Product Schematic Diagram.					
Battery Parameters					
System Configuration	2P16S－51.2V	1P16S－51.2V	3P16S－51.2V	1P16S－51.2V	2P24S－76.8V
Battery Capacity	4KWH	5.3KWH	6.1KWH	8.1KWH	15.6KWH
Battery Voltage Range	40~58.4V	40~58.4V	40~58.4V	40~58.4V	60~88V
Single Cell Voltage Range	2.7V~3.65V	2.7V~3.65V	2.7V~3.65V	2.7V~3.65V	2.7V~3.65V
Capacity Utilization Ratio	95%	95%	95%	95%	95%
Nominal Working Current	80A	105A	60A	80A	100A
Peak Working Current	160A	315A(30S, Discharging)	120A	160A	200A
General Parameters					
Dimensions (L*D*H)	660*344*177mm	660*344*177mm	841*329*150mm	841*329*150mm	970*385*315mm
Communication Method	CAN/485	CAN/485	CAN/485	CAN/485	CAN/485
Weight	48kg	48kg	62kg	62kg	135kg
Protection Level	IP67	IP67	IP67	IP67	IP67
Operating Temperature	-30~60℃	-20~55℃	-20~65℃	-20~65℃	-20~65℃
Humidity Range	0~95%(non-condensing)	0~95%(non-condensing)	0~95%(non-condensing)	0~95%(non-condensing)	0~95%(non-condensing)
Operating Altitude	< 2000m	< 2000m	< 2000m	< 2000m	< 2000m
Charging Method	Automatic charging/Dedicated charger	Automatic charging/Dedicated charger	Automatic charging/Dedicated charger	Automatic charging/Dedicated charger	Automatic charging/Dedicated charger
Application	Low-speed operating environment for vehicles like golf carts, forklifts, and industrial vehicles.				

Module-CT-MD

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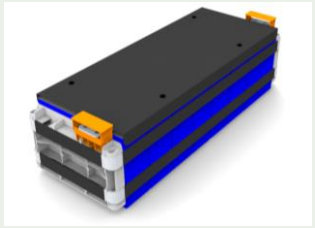
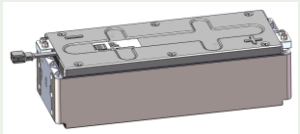
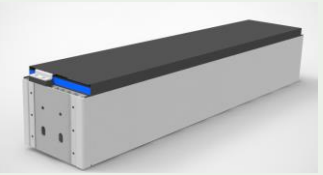
Project	System Parameters	System Parameters	System Parameters	System Parameters	System Parameters	System Parameters
Product Model	CT-MD-1P12S-58AH	CT-MD-1P8S-100AH	CT-MD-2P7S-116AH	CT-MD-1P8S-280AH	CT-MD-2P4S-460AH	CT-MD-3P5S-480AH
Product Schematic Diagram.						
Battery Parameters						
Cell Type	Li-ion-58Ah	LFP-100Ah	Li-ion-58Ah	LFP-280Ah	LFP-230Ah	LFP-160Ah
System Configuration	1P12S－44V	1P8S－25.6V	2P7S－25.6V	1P8S－25.6V	2P4S－12.8V	3P5S－16V
Battery Capacity	2554WH	2560WH	2980WH	7168WH	5888WH	7680WH
Battery Voltage Range	33~52.2V	21.6~29.2V	19.25V～30.45V	21.6~29.2V	10~10.6V	12.5~18.25
Single Cell Voltage Range	2.75V~4.35V	2.7V~3.65V	2.75V~4.35V	2.7V~3.65V	2.7V~3.65V	2.7V~3.65V
Capacity Utilization Ratio	95%	95%	95%	95%	95%	95%
Nominal Working Current	1C	0.5C	1C	0.5C	0.5C	0.5C
Peak Working Current	3c（Time≤10S）	1c	3c（Time≤10S）	1c	1c	1c
General Parameters						
Dimensions (L*D*H)	335*151*11mm	451*164*130.8mm	24.5*154.6*114mm	627.5*178*220mm	478.5*178*220mm	863×176×159mm
Voltage sampling point	13piece	9piece	8piece	9piece	5piece	6piece
Temperature sampling point	3piece	2piece	2piece	2piece	2piece	2piece
Weight	13Kg	17Kg	13Kg	46.5Kg	36Kg	49Kg
Operating Temperature	-30~55℃	-30~65℃	-30~55℃	-35~65℃	-30~55℃	-20~55℃
Cycle life	2000times	5000times	2000times	6000times	4000times	3500times