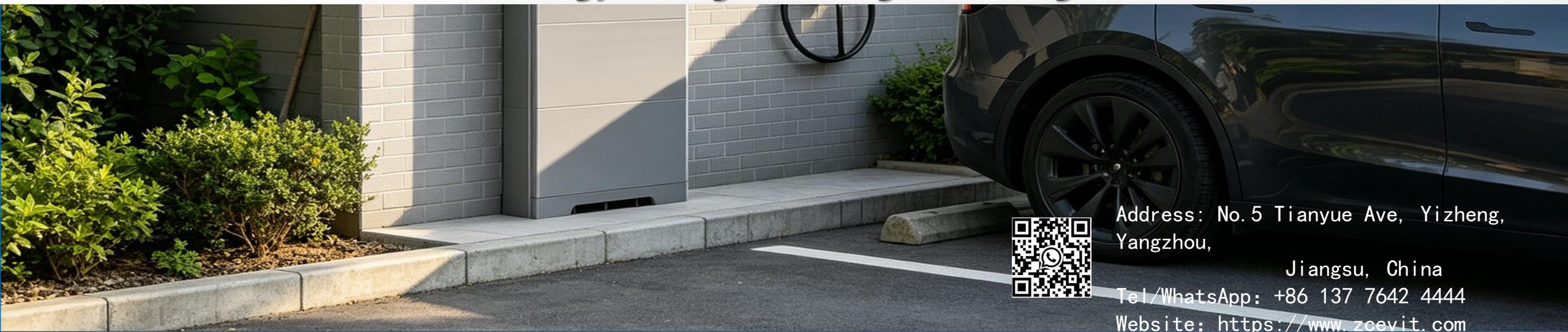
Five-in-One Integrated System

JONCHASE

Household Energy Storage & Charge-Discharge Solutions



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Five-in-One Integrated System for Lighting, Energy Storage, and Charging

Highly integrated photovoltaic inverters, energy storage converters, energy management systems, DC charging modules for electric vehicles, and energy storage batteries.

Crafted with meticulous design, it embodies minimalist aesthetics. Versatile in application, it meets diverse needs across various scenarios. Intelligent upgrades revolutionize the energy usage experience.

Integrated Design

Extreme Security

Highly Reliable

cut down ones expenditures

Flexible scaling, configure on demand

Modular stacking design for scalable expansion as needed. Flexible adaptation for residential, commercial, and industrial applications.

In industrial and commercial applications, multiple Zhongchi all-in-one printers connected in parallel can meet any capacity requirement.

UN38.3 RoHS COMPLIANT CE TÜVRheinland CERTIFIED

Supports bidirectional charging and discharging for electric vehicles

Breakthrough V2G functionality

Economically efficient

- Supports dual-channel PV MPPT with a maximum current of 20 A, compatible with high-power PV modules
- Supports DC charging at voltages ranging from 150 to 1000 V, with broad compatibility with electric vehicle models compliant with both Chinese and European/American standards.
- Supports V2G/V2H functionality, providing sufficient emergency backup power or enabling participation in VPP power trading
- Supports OCPP 1.6j&OCPP 2 .Remote control via cloud platform and app for intelligent home energy management

Zhongchi Five-in-One Integrated System for Lighting, Energy Storage, and Charging

High Integration

• Integrated solution featuring photovoltaic inverters, energy storage PCS systems, EV DC charging capabilities, and V2G (Vehicle-to-Grid) discharge functionality

・Can be integrated with high-voltage energy storage batteries for space-saving and cost-effective installation

Economically efficient

Supports dual-channel MPPT for photovoltaic systems, with a maximum current of 20 A compatible with high-power PV modules

Supports DC charging ranging from 150 to 1000 V, with broad compatibility with electric vehicle models compliant with both Chinese and European/American standards.

Supports V2G/V2H functionality, providing sufficient emergency backup power or enabling participation in VPP power trading

Intelligent and Convenient

・ Compatible with both grid-connected and off-grid applications, featuring built-in STS with a switching time of <10 ms

・Multiple working modes available, supporting remote OTA updates

・Supports remote control via OCPP 1.6j/OCPP 2.0 cloud platforms and apps, enabling smart home energy management

on the safe side

・ Independent air duct cooling design with IP65 high protection rating

• Integrated surge protection, high-frequency isolation, island mode protection, and reverse current prevention for enhanced home-wide electrical safety

Residential Energy Storage with EV Charging Solution

Highly integrated

· Integrated PV inverter + PCS+ EV Charger + EMS to maximize the use of green energy
Simplify design, easy to integrate

Economical and efficient

· Support on-grid and off-grid operation, switch over time <10ms

· Integrated EV charging to save investment cost
V2G/V2H power transfer, ample backup energy

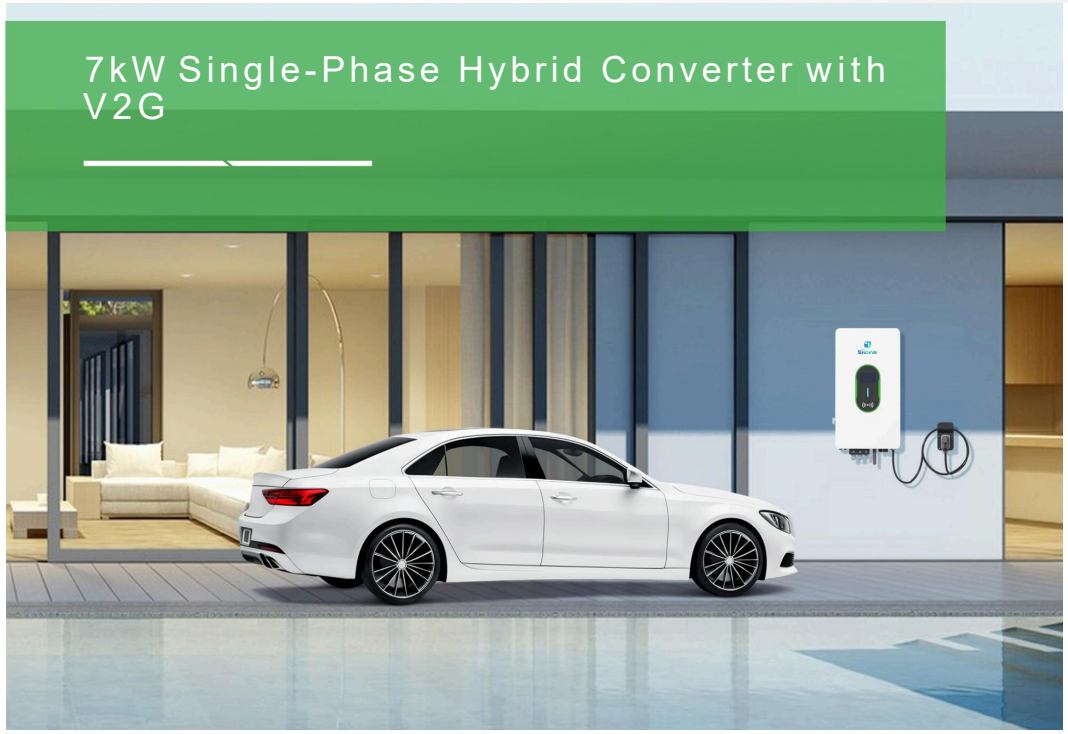
Smart and convenient

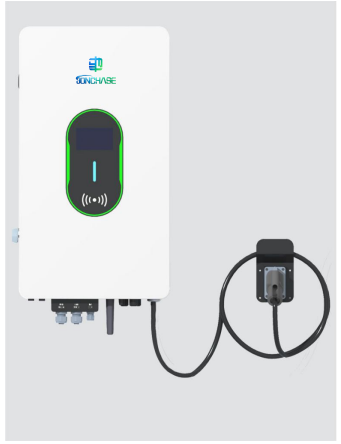
· Support a variety of working modes to choose
Intelligent energy management system for home

Safe and reliable

Independent air duct cooling, IP66 high protection level
Integrated SPD, EV charging with isolation

7kW Single-Phase Hybrid Converter with V2G





Intelligent

·Support on-grid and off-grid operation，switch over time <10ms
·Support a variety of working modes to choose
·Intelligent energy management system for home

Economic & High-efficient

·Support 2PV access, compatible with high-power modules
·Integrated 7kw 150~1000vDC charging and discharging , wide EV compatibility
·V2G/V2H power transfer, ample backup energy

Safe &Reliable

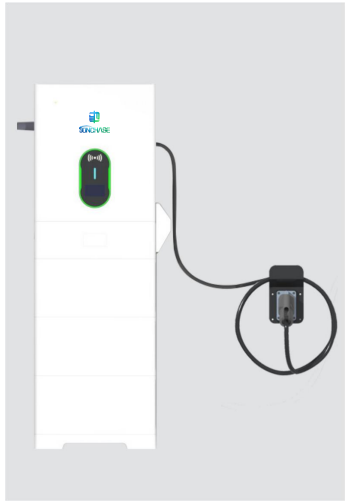
·IP66 protection level
·Integrated SPD，EV charging with isolation

Advanced

·Integrated Inverter+PCS+EVDc Charger+V2G+EMS to maximize use of green energy

Product Model		
	Rated power (W)	7kW
	DC side voltage range (V)	Rectification mode: 150VDC~1000VDC (150VDC~300VDC constant current 23.3A) Inverter mode: 300VDC~1000VDC
EV Charge	DC side current range (A)	0~23.5 (charge); 0~25(discharge)
	Voltage regulation accuracy	≤ ±0.5%
	Current regulation accuracy	≤ ±1%
	Charging connector specifications	CCS1/CCS2/GBT single gun(5m cable)
AC input & output	AC output	Single-phase two-wire + PE(L/N/PE)
	Nominal voltage/range (V)	230VAC(187~275VAC)
	Max. output current (A)	40A
	Rated power (VA)	7000
	Frequency (Hz)	50(±5)/60 (±5)
	Power factor	≥ 0.98(50%~100% output power)
	THDi	≤ 5%(50%~100% output power)
EPS output	Rated voltage (V)	230VAC
	Rated frequency (Hz)	50Hz/60HZ
	Rated power (kW)	5kVA
	Rated current (A)	21.7A
	THDi	< 3%
	Automatic switching time (ms)	< 10ms
Battery	Battery voltage range (V)	360VDC~450VDC
	Max. charge/discharge current (A)	1 ways(13.89A)
	Charge/discharge power	1 ways(1000W)
	Battery type	LiFePO4(LFP)
	Communication interface	CAN 2.0 / RS485
PV side parameters	Max. input power (kW)	10.5kW
	Max. PV voltage (V)	550V
	Start-up voltage (V)	120V
	Nominal voltagel (V)	360V
	MPPT voltage range (V)	90V~550V
	MPPT tracker/strings	2
	Max. input current (A)	15.0A
	Max. short circuit current （A)	20.0A
Others	Dimensions (H*W*D mm)	806*445*217mm(without hanging board)
	Weight (kg)	54kg
	Max. efficiency (%)	≥ 95%(rectifier mode/inverter mode)
	Noise	< 55(rated working condition)
	Display	LCD/LED
	BMS	CAN 2.0
	Meter	RS485
	Monitoring interfaces	WIFI/Bluetooth/DRM/LAN (optional)/4G (optional)
	EV Charging Interface	APP / LCD / RFID(Optional)
Protection		PV ground fault detection, EV insulation fault detection,leakage curent detection,islanding protection, DC(PV/battery) reverse connection protection, PV side/AC side,lightning protection ,islanding
Certification and Standards		Safety regulations ENIEC61851-21,IEC/EN62109,EN62477 EMC EN IEC61000-6-1/2/3/4 Grid connected VDE4105 VDE 0124/EN50549/AS4777.2

7kW Stacked Hybrid ESS with V2G



Intelligent

·On & off-grid compatibility，switch over time <10ms

·Support a variety of working modes to choose

·Intelligent energy management system for home

Economic & High-efficient

·Support 2 PV access，compatible with high-power modules

·Integrated 150~1000VDC charging,wide EV compatibility

·V2G/V2H power transfer, ample backup energy

Safe & Reliable

·IP66 protection level，Maintenance-free

·Integrated surge protection, high-frequency isolation, safer power consumption

·Compatible with anti-backflow function

Advanced

·IntegratedInverter+PCS+EVDc Charger+V2G+EMS to maximize use of green energy

·Supports stackinginstallation with energy storage batteries, saving space and installation costs

Product Model		ZC-CCS2BD
EV Charge	Rated power(W)	7kW
	DC side voltage range(V)	Rectification mode:150VDC~1000VDC(150VDC~300VDC constant current 23.3A) Inverter mode:300VDC~1000VDC
	DC side current range(A)	0~23.5(charge);0~25(discharge)
	Voltage regulation accuracy	≤±0.5%
	Current regulation accuracy	≤±1%
	Charging connector specifications	CCS1/CCS2/GBT,single gun(3m cable)
AC input & output	AC output	Single-phase two-wire+PE(L/N/PE)
	Nominal voltage/range(V)	230VAC(187~275VAC)
	Max.output current(A)	40A
	Rated power (VA)	7000
	Frequency(Hz)	50(±5)/60(±5)
	Power factor	≥0.98(50%~100%output power)
	THDi	≤5%(50%~100%output power)
EPS output	Rated voltage(V)	230VAC
	Rated frequency(Hz)	50Hz/60HZ
	Rated power (kW)	5kVA
	Rated current(A)	21.7A
	THDi	<3%
	Automatic switching time (ms)	<10ms(The system integrates and off grid switching function,without the need to configure STS separately)
Battery	Battery voltage range(V)	360VDC~450VDC
	Max.charge/discharge current(A)	1ways(13.89A)
	Charge/discharge power	1 ways(5000W)
	Battery type	LiFePO4 (LFP)
	Communication interface	CAN 2.0/RS485
	Charging station capacity	5kWh
PV side parameters	Max.input power (kW)	10.5kW
	Max.PV voltage (V)	550V
	Start-up voltage(V)	120V
	Nomina voltagel (V)	360V
	MPPT voltage range(V)	90~500VDC
	MPPTtracker/strings	2
	Max.input current(A)	15.0A
	Max.short circuit current(A)	20.0A
Others	Dimensions(H*W*Dmm)	7kW(without batt)740*655*221mm;7kW/5kWh 1340*655*221mm 7kW/10kWh 1655*655*221mm
	Weight(kg)	65kg(excluding battery)
	Max.efficiency(%)	≥94%
	Noise	<55(rated working condition)
	Display	LCD/LED
	BMS	CAN 2.0
	Monitoring interfaces	WIFI/Bluetooth/DRM/LAN(optional)/4G(optional)
Protection		PVground fault detection,EVinsulation fault detection,leakage current detection,islanding protection, DC(PV/battery)reverse connection protection,PV side/AC side,lightning protection,islanding
Certification and Standards	Safety regulations ENIEC6185 0124/EN50549	1-21,IEC/EN62109,EN62477 EMC EN IEC61000-6-1/2/3/4,Grid connected VDE 4105VDE

Technical Support

Adhering to the "Customer-Centric" Service Philosophy

ZC Power is committed to a customer-first approach, drawing on years of product solution expertise and industry experience. Through continuous innovation, we have developed a robust service ecosystem designed to deliver comprehensive, professional support to our clients.

Service Advantages

- Expert Team
- Timely Response
- Reliable Delivery
- Standardized Processes

Professional Pre-Sales Consultation

With decades of industry expertise, ZCPower's highly skilled R&D team and technical specialists rapidly identify and assess client requirements, providing optimal, customized, and cost-efficient solutions.

Comprehensive After-Sales Service

ZC Power focuses on enhancing customer satisfaction through a premium quality assurance and maintenance framework. Our system includes a structured organizational model , a talented workforce , and meticulous service procedures, ensuring swift responses and professional, prompt, and thorough post-sales support.