BOOST®E

BST SERIES
ULTRA-FAST LIQUID-COOLED
DISTRIBUTED CHARGING SOLUTION

zebraelectronics.com

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BOOST-E

BOOST-E
Ultra-Fast Charging Dispenser
Integrated with Huawei Power Unit

Maximum Per Dispenser
500kW / **500**A

- Dual Connector
- 500A Capacity CCS2 Connector
- Simultaneous Charging for up to 12 Vehicles
- Fleet and Commercial Use
- Ethernet / Mobile / Wi-Fi Connectivity
- Compact Design
- RFID Card Reader
- Silent Power Unit (Liquid-Cooled)
- Ultra-Fast Charging
- Energy Measurement
- Dynamic Load Balancing
- Overcurrent and Leakage Protection
- OCPP Support
- IP54 / IK10 Protection Class
- Custom Branding
- 96.5% Efficiency

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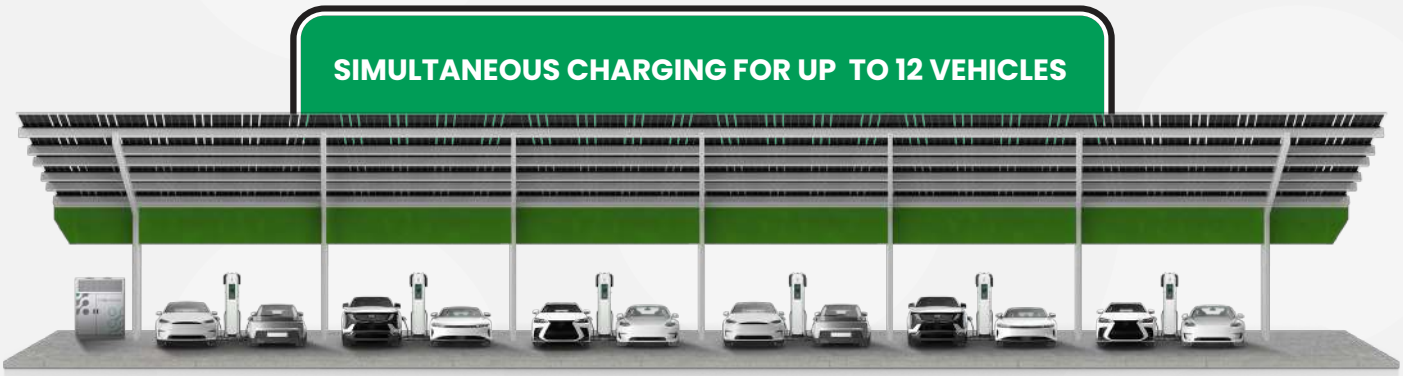

BOOST-E
&
HUAWEI
FUSION CHARGE
Ultra-Fast Liquid-Cooled
Power Unit

720 kW
DC Power

LIQUID-COOLED
SILENT POWER UNIT

The silent, liquid-cooled Huawei power unit delivers effective, innovative, and long-lasting solutions for users seeking high performance and energy efficiency.

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ULTRA-FAST LIQUID-COOLED DISTRIBUTED CHARGING SOLUTION

HUAWEI

FUSIONCHARGE LIQUID-COOLED POWER UNIT

The fully liquid-cooled FusionCharge Power Unit is the core component of the ultra-fast DC charging system. It supports up to 6 dispensers simultaneously, delivering a maximum output of 720 kW.

Input Specifications	Nominal Input Voltage	400 Vac, Three-phase five-wire system
	Nominal Frequency	50/60 Hz
	Nominal Input Current	≤940 A (600kW)
	Input Module	120 kW AC/DC Liquid-Cooled Module
	Power Factor	≥0.99 (Load ≥ 50%)
	THDI	≤5% (Load ≥ 50%)
	Number of AC Inputs	2
Output Specifications	Output Voltage	200~1000 Vdc
	Output Power	600kW
	Output Module	60 kW DC/DC Liquid-Cooled Module
	Output Current Tolerance	≤ ±1% (Load: 20~100%)
	Output Voltage Tolerance	≤ ±%0.5
	Number of Charging Guns	4 - 12
Basic Features	Dimensions (W x D x H)	1700 mm x 800 mm x 2150 mm
	Power Configuration (AC/DC + DC/DC)	600kW + 120kW max 720kW
	Mounting Type	Concrete Foundation
	System Efficiency	95.5% at Full Load – Maximum Efficiency 96.5%
	Cooling	Liquid-Cooled
	IP Rating	IP 55
	Communication Interface	4G, FE (Northbound Communication)
Protection Feature	Operating Temperature	-35°C~+50°C
	Storage Temperature	-35°C~+70°C
	Altitude	≤2000m
	Relative Humidity	5% to 95% (Non-condensing)
	Noise Level	≤ 55 dB@25°C (Mute Mod) , ≤ 60 dB@25°C(Standard mod)
Standards		IEC 61851-1, IEC 61851-23, IEC 61851-21-2

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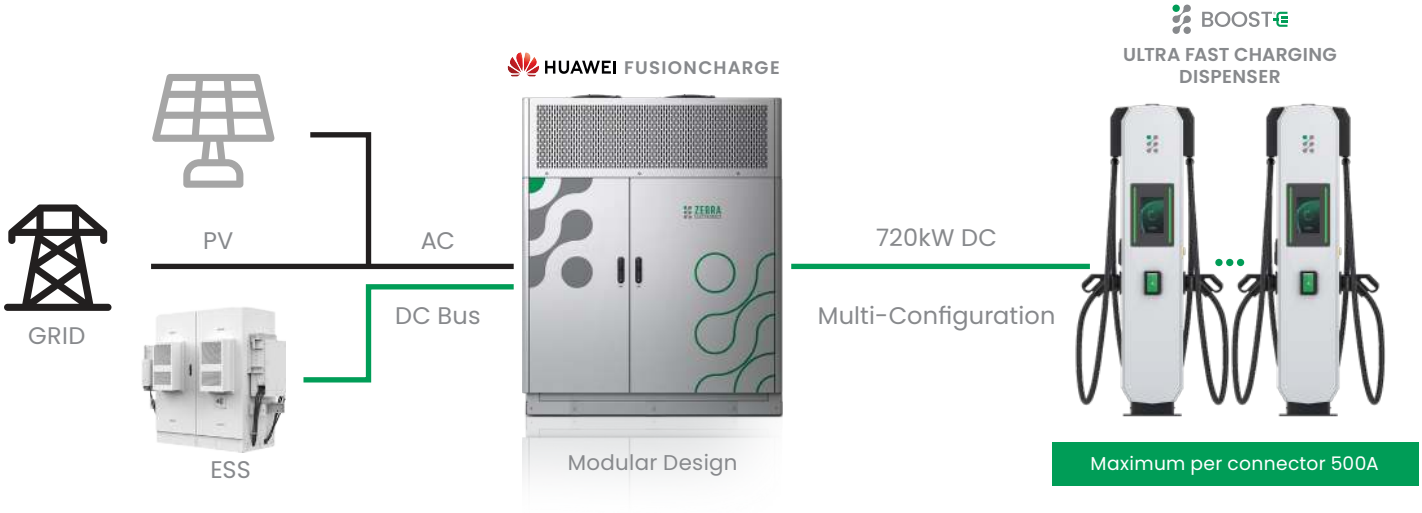
ULTRA-FAST LIQUID-COOLED DISTRIBUTED CHARGING SOLUTION

Better Experience, Higher Quality, Greater Return on Investment

Liquid-Cooled Ultra-Fast Distributed Architecture



Better
Experience

200 km in 5 Minutes
Ultra-Fast – Max 500A

65dB (Full Load)
Silent Mode 55dB
Standart Mode 65dB

High
Quality

10-Year Lifespan
Twice the Industry Standard

0.5% Failure Rate
Airtight Power Cabinet

High
ROI

Achieve +30% higher efficiency,
2× the industry standard performance,

Significantly lower investment costs
Enjoy up to 46% reduction in OPEX with a fully upgradeable system architecture.

Liquid-Cooled	Dual-Layer Power Pool	Power Distribution Matrix	Solar Energy + Energy Storage System Support
10-Year Lifespan Liquid-Cooled Design Quiet & Reliable	**Upgradeable** Power Pool with DC Bus-Supports up to 12-Socket Configuration	**Enables +30%** High Utilization Through Intelligent Automatic Power Distribution and Sharing	**+2.5% Efficiency** Reduced Conversion Losses Extend Output Power

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DUAL
CONNCETOR

The BOOST-E Ultra-Fast DC Charging Dispenser features dual connectors, capable of delivering up to 500A peak (400A continuous).

FLEET AND COMMERCIAL USE

The BOOST-E Ultra-Fast DC Charging Solution offers numerous advantages for fleets and commercial operations by reducing costs and increasing efficiency.

UP TO 500kW
POWER

BOOST-E seamlessly meets your high power needs with a maximum of 500 kW / 500 A per dispenser.

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COLOR
OPTIONS

The BOOST-E dispenser can be customized with corporate colors and logos to match your brand identity.

PAS 1899

The BOOST-E dispenser, compliant with the PAS 1899 standard, is designed to deliver top-level performance in terms of safety, accessibility, and efficiency. It offers fast and effective charging by ensuring full compatibility with every electric vehicle model.

IP54 / IK10
PROTECTION CLASS

The BOOST-E dispenser is designed in accordance with IP54 environmental and IK10 impact protection standards.

REMOTE CONTROL
AND MANAGEMENT

The BOOST-E dispenser offers remote control and comprehensive management capabilities through OCPP (Open Charge Point Protocol) support.

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RESIDUAL CURRENT AND OVERVOLTAGE PROTECTION

BOOST-E is equipped with advanced safety systems. Thanks to its built-in residual current, overvoltage, and other protection features, charging operations are carried out safely, reliably, and without interruption.

POS INTEGRATION

With POS integration, users can make quick and secure payments directly through the device using credit or debit cards. It enhances the user experience and provides a flexible, practical payment infrastructure.

MULTILINGUAL INTERFACE

BOOST-E offers multilingual interface support, enabling users from diverse backgrounds to operate easily and comfortably. The interface, available in widely spoken languages, makes the charging process accessible and user-friendly.

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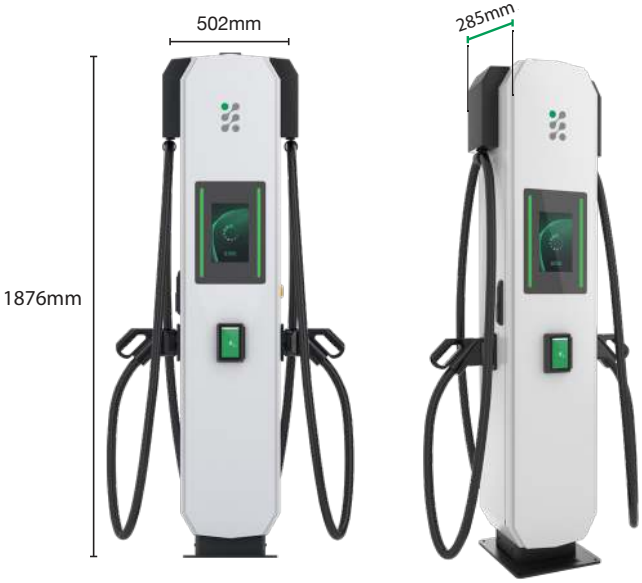
COMMUNICATION OPTIONS

The BOOST-E dispenser is available with Ethernet, Wi-Fi, and LTE connectivity options.

DYNAMIC POWER MANAGEMENT

The distributed charging solution optimizes existing installed power by providing dynamic power management between BOOST-E dispensers and their connectors.

DIMENSIONS



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BOOST®E

Cable Weight Balancer

500 kW Peak Charging Power

2 x Emergency Stop Buttons

2 x CCS2 Connectors

IP54 / IK10 Protection Class

Ethernet / Wi-Fi / Mobile Connectivity

LED Charging Indicator

10.1” Touchscreen Display

PAS1899 Compliant

RFID / POS (optional)

Dynamic Power Management

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		BOOST-E
ELECTRICAL SPECIFICATIONS	Charger Type	DC Ultra Fast Charging (Mode 4)
	Model	BST Series
	DC Output Power	480kW (max.)
	DC Output Current (Max.)	500A (max)
	DC Output Voltage (Range)	200Vdc - 1.000Vdc
	Input Voltage Rating	230/400V (L-N | L-L)±10%
	Frequency	(50 ±0,5)Hz
	Input Current Rating	745A
	Charging Mode	Mode 4
	Efficiency Factor (Max.)	96,5% max.
	Power Factor	0.95
	EV Communication	DIN70121 , ISO15118
	Energy Metering	MID certificate (EN 50470-4)
	Load Management	Dynamic load balancing in double connector models
	Cooling	Open circuit air cooling
	Number of Connectors	Single / Dual
	Connectivity	Ethernet / Wifi / LTE
	Overcurrent Protection (DCOutputs)	2 x 630A Fuse
	Overvoltage Protection	DC SPD Protection
	Current Leakage Protection	Type A RCD
	Ground Fault Protection	Yes
USER INTERFACE	Status Indicator	RGB LED
	Touch Screen	10.1"
	User Authentication	Mobile App, RFID, Credit Card (Optional)
	Card Reader	ISO14443A Mifare RFID (I2C)
	Credit Card	POS Optional (comply with BKM)I
	Accessibility	PAS1899
PHYSICAL SPECIFICATIONS	Environmental Protection	IP54 (Outdoor)
	Impact Rating	IK10
	Operating Temperature	(-)35°C~(+)50°C
	Storage Temperature	(-)40°C~(+)75°C
	Relative Humidity	5%~95% (non-condensing)
	Cable Length	5 m
	Weight	170kg
	Dimensions(mm)	W502 x D285 x H1876
	EV Connector Type	CCS2 Cable (IEC 62196)
	Cable Management System	Available
	Mounting Method	Concrete Base
	Power Input	Bottom
	Work Environment	Indoor / Outdoor
	Screen Protection	Anti-reflective
	Connector Holder	Sensor-equipped
FIRMWARE SPECS	Central Management	OCPP compliant station control and monitoring management system
	Firmware Updates	Automatic firmware updates from Zebra Electronics cloud
	Smart Charging	via OCPP charging profiles
	Language	Multi-Language
	Backend Communication Protocol	OCPP 1.6j and OCPP 2.0.x (Upgradable)
STANDARTS	Compatible Standards	IEC/EN 61851-1, IEC/EN 61851-23, IEC/EN 61851-24, IEC/EN 60529, IEC/EN 62262, IEC/EN 61439-7, IEC/EN 62368-1, IEC/EN 61851-21-2, IEC/EN 62196-1,IEC/EN 62196-3, ISO 14443-A, PAS1899, EN 50470-4, IEC 62052-11, IEC 62053-31

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