

OBC+DCDC Combo

Integrated On-Board Charger & DC/DC Converter System

This system integrates the functionality of an onboard charger and a DC/DC converter into a single unit. Both the onboard charger and DC/DC converter provide real-time data on voltage, current, and other parameters via the CAN bus, facilitating communication and status feedback with the BMS and VCU.

- Compact and lightweight design
- For worldwide usage with a wide input range, 1 phase and 3 phase
- Bidirectional power flow (V2X) versions available
- High-voltage versions available
- Scalable platform for various products



Enhanced Safety

Features comprehensive protection mechanisms during charging, including input/output overvoltage and undervoltage protection, short circuit protection, over-temperature protection, etc., ensuring reliable and safe operation.

Excellent Heat Dissipation

The housing is precision die-cast as a single unit and incorporates a 3D water channel design for efficient heat dissipation.

• Versatile Configuration

Offers multiple low-voltage signal ports and a wide voltage output range. Customizable and adjustable charging strategies are available to suit the requirements of various vehicle systems.

• High Power Density

Employs advanced high-frequency digital control technology, achieving high power density and facilitating seamless integration into the vehicle's overall system.

Our offerings						
On-board Charger		DC/DC Converter			PDU	Cooling method
Power	Output voltage range	Power	Input voltage range	Output voltage		
3.3 kW	50 - 450 VDC	1 kW	40 - 545 VDC	14 V	No	Air cooling
3.3 kW	95 - 450 VDC	1.5 kW	88 - 454 VDC	14 V	No	Liquid cooling
6.6 kW	95 - 450 VDC	1.5 kW	88 - 454 VDC	14 V	No	Air cooling / liquid cooling
6.6 kW	200 - 450 VDC	2 kW	206 - 454 VDC	14 V	No	Air cooling / liquid cooling
6.6 kW	250 - 460 VDC	2 kW	300 - 460 VDC	14 V	Yes	Liquid cooling
6.6 kW	270 - 450 VDC	2 kW	270 - 450 VDC	14 V	No	Liquid cooling
6.6 kW	200 - 420 VDC	2 kW	270 - 450 VDC	14 V	Yes	Liquid cooling
6.6 kW	200 - 420 VDC	2.5 kW	200 - 450 VDC	14 V	No	Liquid cooling
6.6 kW	360 - 785 VDC	3 kW	360 - 785 VDC	14 V	No	Liquid cooling
6.6 kW @1 ϕ 9.9 kW @3 ϕ	350 - 800 VDC	3 kW	350 - 800 VDC	14 V	No	Liquid cooling
6.6 kW @1 ϕ 9.9 kW @3 ϕ	200 - 450 VDC	2.5 kW	200 - 450 VDC	14 V	No	Liquid cooling
6.6 kW @1 ϕ 9.9 kW @3 ϕ	230 - 500 VDC	2.5 kW	230 - 500 VDC	14 V	Yes	Liquid cooling

Please be aware that the input and output voltage ranges provided below represent the general range for this power category. For specific product details, kindly reach out to us.