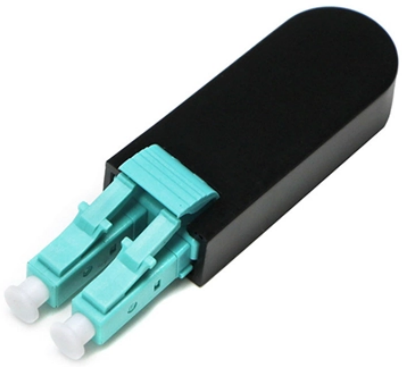
DCDC High Voltage Distribution Box Module



Overview

Such box type DCDC converter, a wide input voltage range of 18~60V, can provide 300W, regulated DC output voltage with high efficiency; The power module offers input UVLO, output over current limit, short circuit, output over voltage, over temperature, and input reverse. Such box type DCDC converter, a wide input voltage range of 18~60V, can provide 300W, regulated DC output voltage with high efficiency; The power module offers input UVLO, output over current limit, short circuit, output over voltage, over temperature, and input reverse. What is a high voltage box?

The High Voltage Power Box combines the functionality of an Onboard Charger (OBC), a DC/DC converter and a PDU (Power Distribution Unit). The OBC is the interface between the car and the public grid. It converts the energy from the network grid AC (Alternative Current). © 2026 Delta Electronics, Inc. The electrification of commercial vehicles and non-road mobile machinery has picked up considerable speed in recent years. On the conventional, mostly diesel-driven side, the rise of sub-systems such as supercaps, electric power steering or e-compressors. A critical evolution in this

domain is the integration of high-voltage (HV) to low-voltage (LV) DCDC converters within the OBC, enabling a unified power delivery architecture that serves both traction battery charging and auxiliary power needs. Engineered for top-tier power conversion efficiency and remarkable power density, our chargers cover a broad power spectrum, ranging from 3. 3 kW. HUBER+SUHNER's modular High Voltage Distribution Unit (mHVDU 800) can be tailored to customer specifications with a short lead time, helping OEMs bring new electric vehicles to market faster while maintaining high quality.

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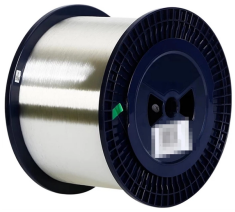
	High voltage distribution box is the control part of EV power supply, which has the functions of power distribution, current measurement, short circuit protection, charge and discharge control, pre ...
	Such box type DCDC converter, a wide input voltage range of 18~60V, can provide 300W, regulated DC output voltage with high efficiency; The power module offers input UVLO, output over current limit, ...
	We supply integrated on board charger (OBC), DCDC, and PDU systems for EVs, including passenger cars and commercial vehicles.
	The mHVDU 800 is a configurable solution designed by HUBER+SUHNER to distribute high voltage power efficiently within electric vehicles (EVs). Its modular design allows for customizations, ensuring ...
	The High Voltage Power Box combines the functionality of an Onboard Charger (OBC), a DC/DC converter and a PDU (Power Distribution Unit). The OBC is the interface between the car ...

A key innovation addressing these needs is the integration of On-Board Chargers (OBC) and high-voltage to low-voltage (HV-LV) DCDC converters into a single unit. This integration eliminates ...

Our HV PDUs ensure stable and safe connections in the voltage range from 60 VDC to 1000 VDC for optimum power distribution between the battery, on-board charger, inverter and other electrical ...

Our high voltage wire processing solutions give you the power needed to terminate high voltage connectors in a flexible, affordable and compact bench-top solution.

View the TI High-voltage power distribution box block diagram, product recommendations, reference designs and start designing.

Our customizable HV PDU can be designed and manufactured for any voltage, providing solutions for OEMs installing the latest electric vehicle (EV) battery technology.

Contact Us

For more information, pricing, or custom network solutions, please contact us:

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