

# Design of High-Voltage Power Distribution Box



## Overview

View the TI High-voltage power distribution box block diagram, product recommendations, reference designs and start designing. Content is provided "as is" by TI and community contributors and does not constitute TI specifications. If you have questions about quality, packaging or ordering TI products, see TI support. Our HV PDUs, which combine our high-voltage DC contactors and fuses with current sensing, thermal protection, on-board charging, and other capabilities, are flexible and ready to handle the challenges and alternative energy applications. The OBC is the interface between the car and the public grid. It converts the energy from the network grid AC (Alternative Current). in-Tec Bensheim develops and produces individual high-voltage power distribution units (PDUs) for the vehicle sector. High-voltage test stand → As with the.



## Article Content

Jan 16, 2026

### HIGH VOLTAGE PDU

By combining our high-voltage DC contactors and fuses in an IP67/6K9K-rated enclosure, optimizing power distribution with busbars

Jan 31, 2026

### Basics of power system design

The function of the electric power distribution system in a building or an installation site is to receive power at one or

Apr 05, 2026

### High Voltage Power Distribution Unit

Below you will find our selection of High Voltage Power Distribution Units, each designed to meet the demands of modern

Nov 16, 2025

### HIGH VOLTAGE PDU

Our customizable HV PDU can be designed and manufactured for any voltage, providing solutions for OEMs installing the latest

Jan 14, 2026

### Distribution Board Design: Standards, Surge Protection

Early planning of a distribution board's layout and component selection is essential for long

Nov 14, 2025

### Electrical Distribution Panel Design Guide

This document outlines the design and functionality of electrical distribution panels, detailing their types, key features, and

Nov 17, 2025

### Power distribution box-GRL

Distribution boxes are mainly used for high-voltage switchgear, transformers and other electrical equipment in indoor or outdoor

Nov 08, 2025

## HV-PDU Series Configurable | Littelfuse

Our engineers will work with you to customize and develop an HV PDU configuration to match the requirements of your specific

Oct 30, 2025

## Power Distribution Equipment

Introduction Power Distribution Equipment is a term generally used to describe any apparatus used for the generation, transmission,

Oct 25, 2025

## Design Guide For Overhead Distribution Systems | EEP

In this way the necessary distribution line voltage level can be determined, along with the

Dec 03, 2025

## High-voltage power distribution box design resources | TI

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

Aug 20, 2025

## Production of Power Distribution Units PDU

Our partner company, the in-Tec Project & Competence Center, takes over the complete development of PDUs or fuse boxes for

Jan 21, 2026

## How to Simplify High-Voltage Power-Supply Design

The design of these front-end power supplies pose unique challenges from the requirements that they have. This post is intended to

Sep 27, 2025

## IEEE\_CED SubDesign

Substation - A set of equipment reducing the high voltage of electrical power transmission to that suitable for supply to

Dec 19, 2025

## High-voltage power distribution unit | EV PDU | Eaton

Integrated components including connectors, terminals and busbars for improved power density. Delivers

Dec 04, 2025

## High Voltage Power Distribution Networks: Design and Operation

High voltage power distribution networks are essential for efficient electricity transmission from generation sources to

Jun 18, 2026

## High-Voltage Power Distribution Unit (HV PDU) Würth

Our HV PDUs ensure stable and safe connections in the voltage range from 60 VDC to 1000 VDC for

Oct 08, 2025

## High Voltage Power Distribution Unit

Whether you're designing an electric vehicle (EV) for the road or manufacturing an off-highway electric vehicle, you need solutions to

Oct 28, 2025

## High-Voltage Power Distribution (48 – 1000V) Würth Elektronik

The high voltage solutions for power distribution developed and produced by Würth Elektronik ICS ideally complement the

May 17, 2026

## High Voltage Electrical Cabinet | Custom High Voltage

Explore Gaobo's custom high voltage cabinets,including switchgear,electrical boxes,and switch

Apr 18, 2026

## Power Distribution Boxes: A Complete Overview

High-Voltage Power Distribution Boxes: Designed for industrial applications like factories and power plants,

Sep 28, 2025

## High Voltage Power Distribution Unit

High Voltage Power Distribution Unit Whether you're designing an electric vehicle (EV) for the road or manufacturing an off-highway

Jul 19, 2026

## High Voltage Box for Electrified Vehicles

Secondly, the high voltage box carries out the high voltage management in the vehicle, and especially the energy distribution from

Jul 09, 2026

High voltage power box: distribution unit, OBC & DCDC | Valeo

The High Voltage Power Box combines the functionality of an Onboard Charger (OBC), a DC/DC converter and a PDU

Nov 07, 2025

High-voltage power distribution unit | EV PDU | Eaton

Eaton's high-voltage power distribution units (PDUs) and power distribution elements (PDEs) deliver power

## Contact Us

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