

# What are the patents for photovoltaic combiner boxes



**RW-F10.2**  
UN38.3 / IEC62619 / CE  
CEI 0-21 / VDE2510-50  
CEC

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## Overview

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This application relates to the field of photovoltaic technologies, and in particular, to an inverter, a combiner box, and a photovoltaic system. a photovoltaic power generation technology is a low-carbon and eco-friendly energy technology. According to the inverter or the combiner box provided in the embodiments of this application, when electroluminescence (EL) defect detection is . The Patent Public Search tool is a new web-based patent search application that replaced internal legacy search tools PubEast and PubWest and external legacy search tools PatFT and AppFT. Patent Public Search has two user selectable modern interfaces that provide enhanced access to prior art. In several situations, such as maintenance of a PV string, a safe disconnection of the respective PV string from t e combiner box is . A solar combiner box is a crucial component in solar energy systems, designed to consolidate the outputs of multiple solar panel strings into a single output that connects to an inverter.

## What are the patents for photovoltaic combiner boxes

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### APPLICATION NOTE DC COMBINER BOX IN PHOTOVOLTAIC

External DC combiner boxes are used with central inverters in large-scale solar farms to consolidate thousands of strings and with single-mpt string inverters which can be managed as

### RAPID SHUTDOWN COMBINER

Innovative Solar was selected to design and build a cost-effective 1,000 V rapid shutdown combiner for the commercial and utility markets. The product was customized to meet our stringent specifications.



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## RE-COMBINER BOX OF PHOTOVOLTAIC SYSTEM , TREA

In accordance with aspects of the invention, photovoltaic (PV) systems and solar installations can be simplified and made less expensive by providing a re-combiner box with a safety switch disconnect unit.



### ( 12 ) United States Patent

In an embodiment, the present invention provides a photovoltaic string combiner box with protection functions to protect and safely isolate each PV string of a PV array from the combiner box and to

### [Understanding PV Combiner Boxes: Design, Function, Protection, and](#)

A complete guide to PV combiner boxes, covering structure, safety protection, monitoring, IP ratings, selection principles, and future smart trends. Learn how advanced combiner



### The Ultimate Guide to Solar Combiner Boxes: From Basics to

Explore the comprehensive guide to PV Solar Combiner Boxes: Learn about types, components, selection criteria, installation best practices, maintenance, and advanced technologies.

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## PV DC Combiner Boxes

Our DC combiner boxes offer users the possibility to integrate short-circuit and overvoltage protection, as well string monitoring solutions (I,V, T and SPD and switch isolator status), for PV systems using

## Inverter, combiner box, and photovoltaic system

Embodiments of this application disclose a design of an inverter and a design of a combiner box, to reduce maintenance costs of a photovoltaic device.



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