

Photovoltaic DC busbar remote box







Overview

Are PV DC combiner boxes CE-compliant?

The PV DC COMBINER BOX is CE-compliant in accord-ance with Directive 2014/35/EU (Low Voltage Directive) and with Directive 2014/30/EU (EMC Directive). PV DC COMBINER BOX is a complete range of tai-lor-made Level 1 combiner boxes for utility-scale photovol-taic systems.

How does the PV DC combiner box with monitoring work?

By default, the PV DC COMBINER BOX with monitoring comes with the internal communications pre-wired. This means that there is a communication cable between the device and 3 terminals at the bottom side of the enclosure.

How do I connect a DC combiner box to a solar inverter?

The output cables must be connected to a Level 2 combiner box, which will join DC+ and DC- from other Level 1 combiner boxes, or directly to the solar inverter. The enclosure of the PV DC COMBINER BOX is made of Glass Fibre Reinforced Polyester (GFRP). The en-closure provides IP65 and IK07 or higher in accordance with IEC 62208.

What fuses are included in a PV DC combiner box?

The PV DC COMBINER BOX is provided with gPV fuses in accordance with IEC 60269-6:2010. Each design of combiner box contains the most suitable fuse rating specially selected for each project, depending on Isc of PV strings, on voltage rating and on ambient tem-peratures.

How many inputs & outputs does a PV DC combiner box have?

The PV DC COMBINER BOX product range ofers solu-tions from 8 to 32 inputs and 1 or 2 outputs. These can be designed for systems with string voltage of 1000 or 1500 V DC. The necessary string cables (+ and -) are to be connected at the inputs whereas one or two DC+ and DC- main ca-bles will be at the output side.



Does the PV combiner box have a DC disconnection switch?

The PV DC COMBINER BOX has a DC disconnection switch by default. The DC voltage of the switch depends on the voltage of the PV string. The switch disconnector mak-ing and breaking capacity (according to the IEC 60947-3) has been selected to assure that it can switch the circuit at full load at the maximum operating temperature.



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