## SOLAR PRO.

### **Battery cabinet control module**

#### What is a control module?

The control module is used to supervise and manage the operation of other modules within the central battery. The keyboard and LCD display in the front panel allow the user to configure and operate the whole system. The system configuration may also be carried out via RJ45 connector using SmartVISIO application installed on a computer.

#### What are central battery cabinets?

Central battery cabinets are devices made in the form of control enclosures intended for vertical placement on the ground. The doors are equipped with locks preventing unauthorized access to the interior. Inside the cabinets there is a mounting plate with the basic elements of the system.

#### What is included in a battery management system?

In addition to battery cells, there are switch-disconnectors, contactors, sensors, sampling lines, battery management systems, as well as control units being integrated into the same battery rack. BESS employs a sophisticated, multilevel battery management system (BMS) for system monitoring and control. Each battery management system including:

#### How many temperature detectors does a battery module have?

Each battery module has 8 temperature detectors. There are 2 racks that fit in a single battery cabinet,9 slots in each battery rack to accommodate 8 battery modules and total 1 BSPU (Battery Switch &Protective Unit). Racks are connected in parallel and paired with a system BMS to meet the power and energy requirements of the application at hand.

#### What is a battery management system (BMU)?

Each battery module is equipped with a battery management system (BMU) to form a rack-mountable module assembly. Multiple module assemblies are then connected in series to form a battery rack. Each battery rack contains a rack-level BMS.

#### What is a battery module made of?

The external casing is made of metalcovered by insulating materials. For example, the top cover is made of PP, the bottom base is made of aluminum. The copper bars and screws are connected internally to prevent short circuit to ensure the electrical safety of the battery module. Each battery module has 8 temperature detectors.

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