Solar Serisi String Panel

SOLAR POWER
STRING PANE



GENEL

The String Box monitors the currents in photovoltaic modules and can promptly diagnose faults. The device is made of UV-resistant polyester resin and offers IP65 degree of protection. It has a general circuit breaker, type ABB S804PV from 1200V, to disconnect the photovoltaic field from the inverter and up to 16 strings (with a maximum input current per string of 9A) can be connected. Since it is compatible with the SunVision monitoring software, signals and alarms are sent in the event of current faults according to the thresholds set at configuration. Communication solutions include an RS485 and RS232 ports port (supplied as standard), an optional slot for a NetMan Plus PV Ethernet card and analog inputs for the connection of environmental sensors (temperature, radiation and wind).

MAIN FEATURES

? Parallel connection of (up to) 16 strings by 9A each (8 channels);
? Local and remote indication of status and alarm conditions;
? RS232 and RS485 connections supplied as standard;
? One slot connection for expanding communication (e.g. Ethernet board);
? Proprietary communication protocol and MODBUS RTU, both available on all the communication ports;
? Wide configurability of the monitoring parameters using the available software;
? Local history log of alarms and status;
? Protection fuses for each couple of inputs, 900Vdc on positive and negative;
? For each input is possible to connect wires up to 16mm2;
? Output switch, with optional release coil, used for inverter detachment;
? Monitored discharger, used against over-voltage situations, protected against over-currents, easy to restore thanks to removable cartridges;
? Direct input power from PV field or from auxiliary;
? Insulated digital inputs for local monitoring;
? Insulated analog inputs for environmental sensors (2xPT100, 0-10V, 4-20mA);
? Configurable digital outputs with free contacts;
? IP65 protection degree for external environment.

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