



Smart String Combiner Box (24 Channel)

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Smart String Combiner Box (SSCB): The string combiner boxes are used to pool power from different strings to one single output which will in turn be fed into a central inverter. The SSCBs have DC disconnectors to isolate faulty strings. These are also used to measure string currents, string voltage and ambient temperature.

Technical Specifications:

Mechanical:

1. Weight: 25kg (approx.)
2. Protection: IP55 (IP65 available on request)
3. Material: Plastic
4. Glands:
 - a. 48XM16 for PV input and output
 - b. 1XM16 for Earth
 - c. 2XM16 for communication cables
 - d. 2XM40 for PV output
 - e. Other glands can be included on request

Electrical Data:

1. 24 Channel input
2. 2X24 12A; 1000V fuses (fuses in both +ve and -ve terminals with holders)
3. Current max: 160ADC
4. Operation Voltage: 1100VDC
5. DC switch: 250A at 1200VDC Manual handle operation
6. SPD: Yes
7. Control: Microcontroller

Measurement:

1. 24 input DC currents (up to 20A shunt based/Hall effect based also available)
2. Voltage measurement (up to 1200 VDC)
3. Ambient temperature (PT100)
4. DC switch status indication
5. SPD status indication

Communication: RS485 (other options available on request at extra cost)