

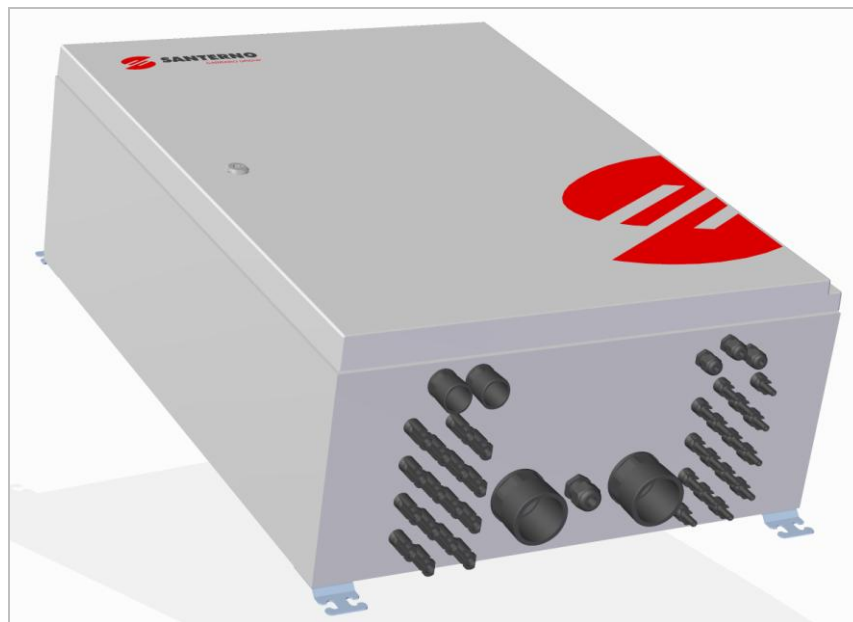
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SUNWAY SMART STRING BOX LT

16 inputs and current sensors

Combiner Boxes



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Cap. Soc. € 2.500.000 i.v.
Codice Fiscale e Partita Iva
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Cod. Mecc. PD 054138
Cod. Ident. IVA Intracom.
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Società soggetta all'attività
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di Carraro S.p.A.

The **SUNWAY SMART STRING BOX LT** series are combiner box for PV strings provided with string monitor and advanced performance analysis features.

Designed in Italy by the technicians of Elettronica Santerno S.p.A., they feature the most reliability, easy installation and maintainability.

KEY FEATURES

The main integrated standard functions of SMART STRING BOX SSB16-LT-1000V II are listed below:

- Possibility to connect up to 16 strings
- String current measure, 16 measurement channels
- Measurement accuracy of 1%
- String opening alarm and detection of poor performance
- Mismatch detection
- Optional environmental measurements (radiation and temperature)
- String fuses protection on each pole
- Protective class II
- Load break switch
- Signaling contact for Load break switch status
- Signaling contact for SPD status
- Polyester flameproof and UV ray-resistant box
- Lockable enclosure
- Degree of protection IP65
- Suitable both for floating or earthed PV configuration
- Serial RS485 communications with MODBUS RTU protocol, completely integrated with the Elettronica Santerno remote control system with alarm indication in the event of communication loss
- Advanced self-diagnostics
- Complete integration with Sunway Station
- Thorough manufacturing with first class materials

Technical Data

Smart String Box LT SSB16-LT-1000V II	
Input Ratings	
Max. number of string	16
Max. DC voltage (max. Udc)	1000 V
String DC fuses size ⁽¹⁾	8 A up to 30 A
Number of measuring channels	16
Max. input current per channel (Isc) @45°C	22 A
String cable cross-section	up to 10 mm ²
String connector type ⁽²⁾	Quick-coupling PV connectors, Amphenol or similar
Output Ratings	
Max. output current (max. OPV) @45°C	180 A
Max. output cable cross-section	300 mm ²
Grounding cable cross-section	35 mm ²
Dimensions and weight	
Dimensions (WxHxD)	835x635x300 mm
Weight	24 kg
Additional features	
Fuse protection	On both poles
Alarms	String Open - Mismatch - Switch Status - SPD Status
Protective class	II
Load break switch	Yes
Load break switch status	Modbus
Protection against DC overvoltage (SPD)	Yes
SPD status	Modbus
N. of ambient variable inputs	2 (Optional)
Auxiliary power supply	230 Vac
Data transfer protocol	MODBUS RTU
Degree of protection	IP65
Lockable enclosure	Yes

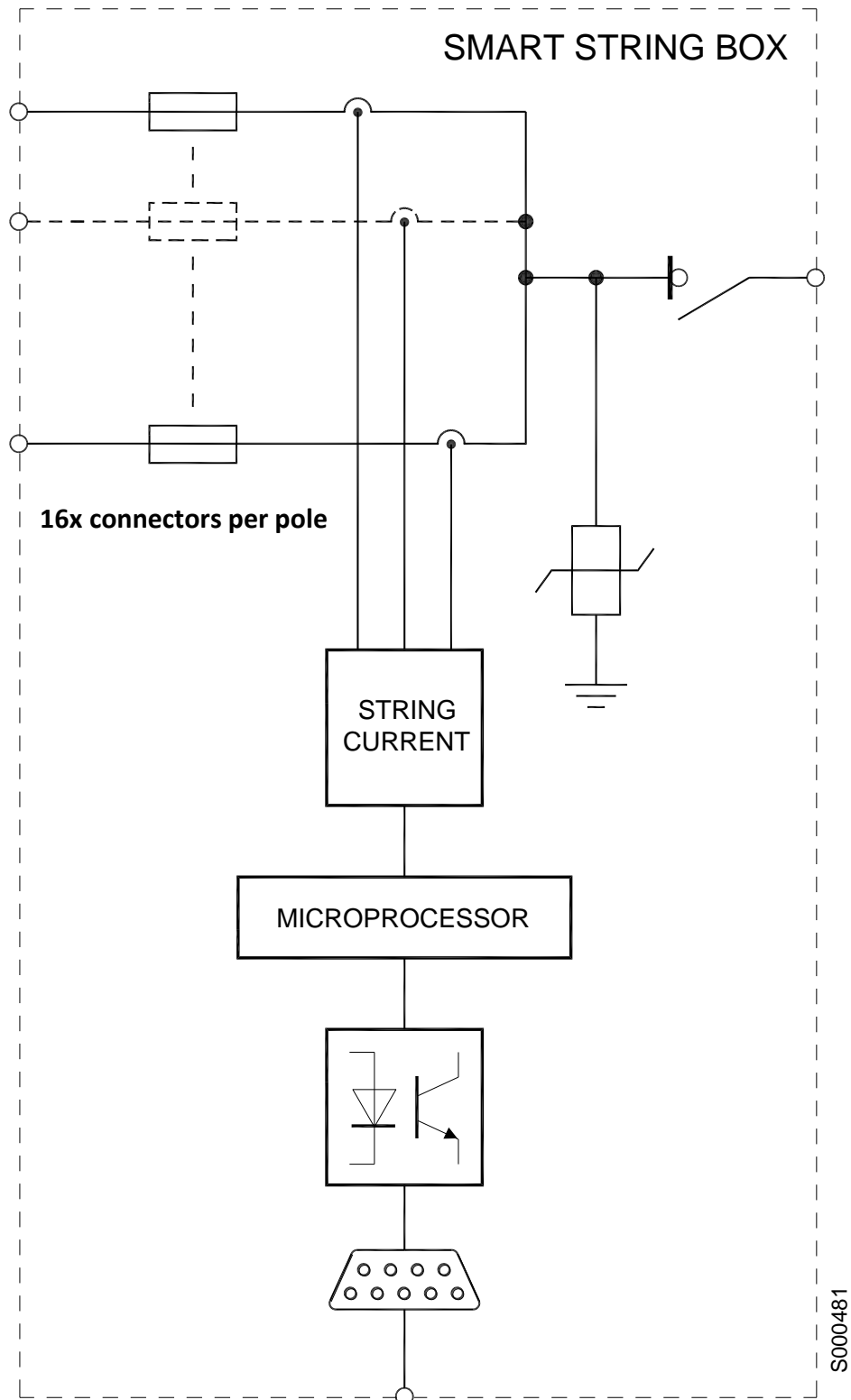
Electronica Santerno reserves the right to make any technical changes to this document without prior notice.

NOTE

⁽¹⁾ Fuses are not included. Fuse rating to be defined by customer in agreement with PV module manufacturer.

⁽²⁾ Mating connectors (string side) are not included. Always use mating connectors of the same brand as the connectors installed on the string box. The use of other connectors may damage the product.

Single Line Diagram



Layout

