

# SOLAR INVERTER

## Sunways String Box

The Sunways String Box is the optimum solution for consolidating strings near the modules in order to reduce line losses on the DC side. It can be used as an accessory with the PT central inverter, for example.

### Design

The String Box features a weather-resistant IP65 casing for connecting up to 12 PV strings and a DC-bus line for connection to a central inverter.

### Overview

The Sunways String Box is available with the following options:

### String Boxes

Art. No.	Description
SE100E10A	String Box 08 Basic
SE101E10A	String Box 08 incl. overvoltage protection
SE102E10A	String Box 08 incl. overvoltage protection and DC switch
SE103E10A	String Box 12 Basic
SE104E10A	String Box 12 incl. overvoltage protection
SE105E10A	String Box 12 incl. overvoltage protection and DC switch

### PV Fuses 10x38 mm (set of 10)

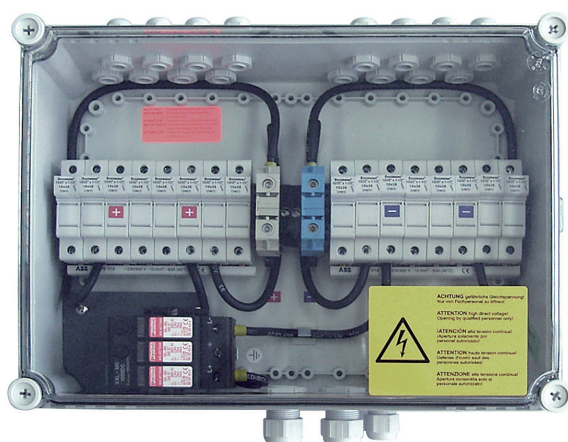
Art. No.	Description
SE106E10A	8 A, 1000 V (for modules with 5" cell)
SE117E10A	10 A, 1000 V
SE107E10A	12 A, 1000 V (for modules with 6" cell)
SE108E10A	16 A, 1000 V
SE116E10A	20 A, 1000 V

### PV Sleeves 10x38 mm (set of 10)

Art. No.	Description
SE109E10A	(as fuse substitute at the negative pole)

### Information and Sales

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## Technical Data String Box

### Input

No. of inputs	String-Box 08: 8 x plus, 8 x minus String-Box 12: 12 x plus, 12 x minus
Max. DC voltage/terminal	1000 V
Max. DC current/terminal	14 A (notice max. output current)
DIN fitting	M16
Wire cross-section terminal	max. 10 mm <sup>2</sup>
Fuse socket	10 x 38 mm
Fuse socket configuration	minus side: dummy sleeves plus side: order suitable fuses separately

### Output

No. of outputs	1 x plus, 1 x minus
Max. DC voltage	1,000 V
Max. DC current	75 A
DIN fitting	M25
Wire cross-section terminal	max. 35 mm <sup>2</sup> fine-strand/50 mm <sup>2</sup> multi-strand

### DC load break switch (optional)

Max. open-circuit voltage (VDC)	1,000 V
Max. DC current (ADC)	80 A
Output terminals	Screw terminals, 70 mm <sup>2</sup>
Cable entry	DIN fittings

### Overvoltage protection (optional)

Category	Class II / "C"
Type	Phoenix VAL MS1000 DC

### Housing

Design	Protection Class II/P65, polycarbonate
Dimensions (without DC load break sw.)	String-Box 08: 378 x 278 x 130 mm (W x H x D) String-Box 12: 558 x 278 x 130 mm (W x H x D)
Dimensions (with DC load break sw.)	String-Box 08: 660 x 320 x 179 mm (W x H x D) String-Box 12: 860 x 320 x 179 mm (W x H x D)
Ambient temperature	-25°C ... 45°C
Other features	Pressure compensation element to prevent condensation

### Diagram of String Box 08 with overvoltage protection

