



String Monitor Features

- **Features string monitoring "String.bloxx"**
- 8,16, 24 Current measurement channels
- 1 analog input channel for voltage, 0-1000 VDC string voltage
- 2 Digital inputs
Monitoring of overvoltage protection and main switch
- RS485 fieldbus interface
up to 115,2 kbps: Modbus-RTU (optional OEM)
- Signal conditioning
calculated DC Power, linearization, mean value, Min/Max storage, alarm
- **Features String.bloxx 208, 116, 124**
- Integrated LC display, Display of all readings including current and DC power
- Analog current measurements ± 26 A
- 1 PT1000 Cabinet temperature sensor
- 1 PT1000 Input
- Monitoring of overvoltage protection and main switch
- **Features String.bloxx 116 E, 124 E**
- 16/24 Analog current measurements + 26 A
- On board Temperature sensor

Most important features

DC Combiner Box

String.CB IP65 wall mount enclosure
Version String.CC IP65 as ground mountable pedestal available

- **8, 12, 16, 24, 32 PV strings can be connected**
other versions available on request
- **Consistent 1000 VDC layout (option 1500)**
- **String monitoring measure device String.bloxx or String.bloxx "E"**
- **Overvoltage protection**
SPD 1000 VDC
- **Lever type switch fuse**
in positive and negative pole with contact protection
push-in terminal block for string connection
Conductor cross section 1,5 – 10 mm²
- **PV Fuse 10-20A/1000VDC**
in positive and negative pole with contact protection
- **DC load break switch**
120-400A
- **String connection terminals**
1,5 - 10 mm² (optional MC3, MC4)
- **enclosure (material: polyester monobloc)**
IP65 Rack/wall mount
H850xW650xD300mm
- **Cable gland**
M16 string cable (4,0-10,0mm)
M50 DC Out cable (22,0-29,0mm)
M25 COM cabel (10,0-17,0mm)
M20 grounding cabel (6,5-12,0mm)

In large solar systems monitoring and troubleshooting becomes more complex.

Each operator is interested in finding errors in a module, string, or a group quickly because they can reduce the amount of energy produced and the life of the system greatly. With the help of the Generator Connection Box the individual solar module strands of a photovoltaic system can be connected in parallel and connected to larger wire cross sections to the inverter.

With the integrated string.bloxx it is possible to monitor inverter-independent precisely the DC side of photovoltaic systems. The data exchange between a string bloxx and superior management system can be direct by the open standard Modbus RTU Bus.

String.bloxx 208, 116, 124



Key features:

- **8-32 PV solar strings per board,**
- **String.bloxx 208, 8 analog input channels for current**
± 26 A string current
- **String.bloxx 116, 16 analog input channels for current**
± 26 A string current
- **String.bloxx 124, 24 analog input channels for current**
± 26 A string current
- **1 analog input channel for voltage**
0-1000 VDC string voltage
- **3 digital inputs**
Monitoring of overvoltage protection and main switch
- **2 input channels for temperature**
Panel and switch cabinet temperature
- **1 digital output**
- **Signal conditioning**
calculated DC Power, linearization, mean value, scaling, alarm
- **Integrated LC display**
Display of all readings, configuration
- **RS485 fieldbus interface**
up to 115,2 kbps: Modbus-RTU (optional OEM protocols)
- **Connectable to data logger**
e. g. Q.reader or other 3rd party applications
- **Electromagnetic Compatibility**

String.bloxx 116 E, 124E



Key features:

- **16-32 PV solar strings per board,**
- **String.bloxx 116E, 1000V System Voltage, 16 analog input channels for current**
± 26 A string current
- **String.bloxx 124E, 1000V System Voltage, 24 analog input channels for current**
± 26 A string current
- **String.bloxx 116E 1500V, 1500V System Voltage, 16 analog input channels for current**
± 26 A string current
- **String.bloxx 124E 1500V, 1500V System Voltage, 24 analog input channels for current**
± 26 A string current
- **1 analog input for voltage measurements**
0-1000 VDC string voltage
- **2 Digital inputs**
Monitoring of overvoltage protection and main switch
- **On board temperature channel**
1 Digital, onboard, accuracy ±1°C, -40°C to 125°C
- **Signal conditioning**
Calculated DC Power, linearization, mean value, scaling, alarm
- **RS485 fieldbus interface**
up to 115,2 kbps: Modbus-RTU, (optional OEM protocols)
- **Connectable to data logger**
e. g. Q.reader or other 3rd party applications
- **Electromagnetic Compatibility**
according to EN 61000-4 and EN 55011
- **Power Supply 18 .. 36 VDC 1.5W**
- **DIN rail or wall mounting according to DIN 50022**