

3. Secure the inverter to the wall bracket using two M5 screws on both sides to prevent the inverter from accidently slipping off. Screwdriver type: T25, Torque: 2.5Nm.



## **5.AC** Connection

## 🛕 DANGER

Danger to life due to high voltages in the inverter

Before performing the electrical connection, ensure the DC switch & AC circuit breaker are switched off and cannot be reactivated.

## 1. AC cable requirements as follows:



| Object  | Description  | Value               |  |
|---|--|---------------------|--|
| А   | External diameter                                    | 1821 mm             |  |
| В   | Copper conductor cross-section                       | 610 mm <sup>2</sup> |  |
| С   | Stripping length of the insulated conductors         | approx. 12 mm       |  |
| D   | Stripping length of the outer sheath of the AC cable | approx. 75 mm       |  |
| The PE conductor must be 5 mm longer than the L and N conductors. |  |                     |  |
|   |  | 2                   |  |

Danger to life due to high voltages of the PV array When exposed to sunlight, the PV array generates dangerous DC voltage which is present in the DC conductors and the live components of the inverter. Touching the DC conductors or the live components can lead to lethal electric shocks. If you disconnect the DC connectors from the inverter under load, an electric arc may occur leading to electric shock and burns. •Do not disconnect the DC connectors under load •Do not touch non-insulated cable ends •Do not touch the DC conductors •Do not touch any live components of the inverter •Have the inverter mounted, installed and commissioned only by qualified persons with the appropriate skills •If an error occurs, have it rectified by qualified persons only •Prior to performing any work on the inverter, disconnect it from all voltage sources.

- 1. DC cable requirements : 2.5 to 6 mm<sup>2</sup> 5 to 8 mm / / / PV1-F/UL-ZKLA/USE2 ≈12mm U≥1000V
- Lead the stripped cable all the way into the DC plug connector. Press the clamping bracket down until it audibly snaps into place. Push the swivel nut up to the thread and tighten the connector (SW15, torque: 2.0Nm). Connect the assembled DC plug connectors to the inverter.





< 3%

8.Commissioning

Warranty card will be shipped with inverter. You can download the current warranty conditions at www.zeversolar.com/service/warranty.

| Dimensions (W x H x D)  | 758×500×175 mm                           |  |  |
|---|--|--|--|
| Weight  | 43 kg                                    |  |  |
| Noise emission (typical)  | < 60dB(A)@1m                             |  |  |
| DC connection / AC connection   | SUNCLIX DC connector / Plug-in connector |  |  |
| Earth fault alarm   | cloud based, audible and visible (AU)    |  |  |
| Cooling concept   | Fan cooling                              |  |  |
| Operating temperature range   | -25°C+60°C                               |  |  |
| Relative humidity (non-condensing)  | 0% 100%                                  |  |  |
| Max. operating altitude   | 2000 m                                   |  |  |
| Degree of protection (acc. to IEC 60529)  | IP55(Fan) / IP65 (Electronics)           |  |  |
| Communication interfaces  | R5485                                    |  |  |
| Climatic category (acc. to IEC 60721-3-4)   | 4К4Н                                     |  |  |
| Topology  | Transformerless                          |  |  |
| Self-consumption (night)  | <1W                                      |  |  |
| Standby power   | < 12 W                                   |  |  |
| <ol> <li>Maximum 10% AC overload can be activated by settings on the display, please make sure that it is compliant to<br/>local regulations and DNO's requirements before enabling.</li> </ol> |  |  |  |
|   | 6  |  |  |

Harmonic distortion (THD) at Pac.r

General Data

Regional services are available by contacting the following numbers during

| Australia  | Europe  |
|--|---|
| Phone: +61 13 00 10 18 83  | Phone: +49 221 48 48 52 70                              |
| E-Mail: service.au@zeversolar.com  | E-Mail: service.eu@zeversolar.net                       |
| China(incl. Hong Kong, Macau)<br>Phone: 400 801 9996<br>E-Mail: service.china@zeversolar.com | Rest of the world<br>E-Mail: service.row@zeversolar.com |

SMA New Energy Technology (Jiangsu) Co., Ltd. Tel.: +86 512 6937 0998 Fax: +86 512 6937 3159 Web: www.zeversolar.com Address: Building 9, No.198 Xiangyang Road, Suzhou 215011, China

For more information, please download the user manual and other technical documents at www.zeversolar.com.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

7

Basic Setting

Advanced Setting

8 13 17 22

Date&Time Setting

Language Setting

Contrast Setting

Safety Setting

EEG Setting

0 W

0.0 KWh 0.0 KWH

19/11/2013 09:24

1234 W

0.1 KWH

0.0 KWh

Overload Setting Active power control Reactive power control PV Mode Setting

19/11/2013 09:23 🕱 375

Settings