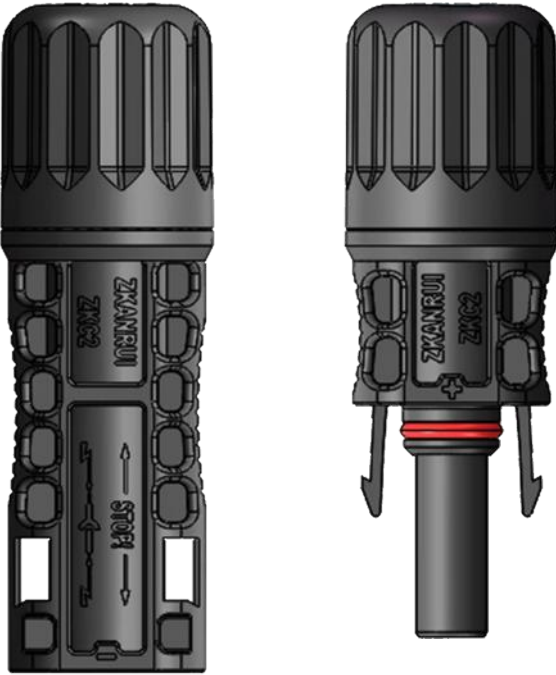


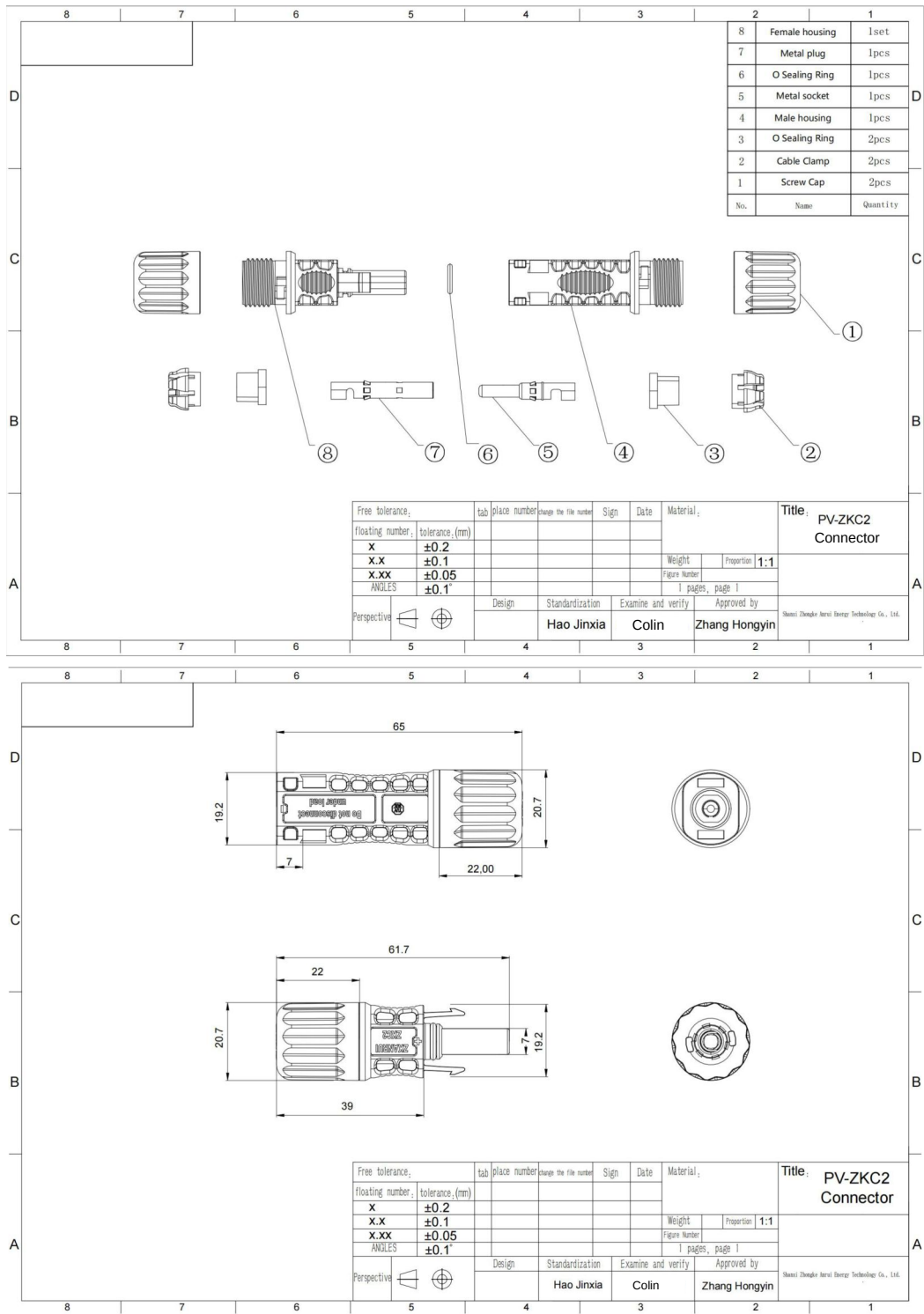
|                         |                                        |                                                         |
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| <b>ZKANRUI</b>          | specification<br>number<br>ZKAR2021006 | PV Connector PV-ZKC2 Specification Manual               |
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## PV-ZKC2 Connector

|                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The appearance of the product graph</b>                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                        |
| <b>Product overview</b>                                                                                                                                                                                                                                                                                   |
| <p>PV-ZKC2 is a photovoltaic connector is developed by our company, which composed of metal parts and insulating parts. Passed various environment test with high electrical safety performance, can be widely used solar grid like commercial, industrial and residential roof photovoltaic devices.</p> |

|                         |                                        |                                                         |
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## Size of product graphs



|                               |                                     |                                                  |                          |          |       |
|-------------------------------|-------------------------------------|--------------------------------------------------|--------------------------|----------|-------|
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| Main technical specifications |                                     |                                                  |                          |          |       |
| Project                       |                                     | Performance index                                |                          | Notes    |       |
| Type                          |                                     | PV-ZKC2                                          |                          |          |       |
| TUV Certificate number        |                                     | B104602 0005 Rev.00                              |                          |          |       |
| Rated voltage (DC)            |                                     | 1500                                             | V                        | IEC      |       |
| Rated current                 |                                     | 35                                               | A                        |          |       |
|                               |                                     | 40                                               | A                        |          |       |
| Contact resistance            |                                     | ≤0.5                                             | mΩ                       |          |       |
| Temperature range             |                                     | -40℃~+85                                         | ℃                        |          |       |
| Breaking capacity             |                                     | ≥80                                              | N                        |          |       |
| Plug life test                |                                     | 50                                               | times                    |          |       |
| Protection level              |                                     | IP65/IP68 (1m,1h)                                |                          |          |       |
| Safety Class                  |                                     | Class II                                         |                          |          |       |
| Fire rating                   |                                     | UL94 V-0                                         |                          |          |       |
| BOM List                      |                                     |                                                  |                          |          |       |
| NO.                           | Object                              | Type                                             | Manufacturer             | Quantity | Notes |
| 1                             | Positive housing                    | PV40Z                                            | Asahi Kasei Corp.        | 1 pcs    |       |
| 2                             | Negative housing                    | PV40Z                                            | Asahi Kasei Corp.        | 1 pcs    |       |
| 3                             | Screw Cap                           | A3X2G5                                           | BASF SE                  | 2 pcs    |       |
| 4                             | Cable Clamp                         | FR370                                            | Ashai Kasei Corporatiion | 2 pcs    |       |
| 5                             | Sealing Plug                        | Silicone rubber                                  | Ningbo Yucheng           | 2 pcs    |       |
| 6                             | O Sealing Ring                      | Silicone rubber                                  | Ningbo Yucheng           | 1 pcs    |       |
| 7                             | Negative Pin                        | Copper,tinned                                    | Ningbo Kailing           | 1 pcs    |       |
| 8                             | Positive Socket                     | Copper,tinned                                    | Ningbo Kailing           | 1 pcs    |       |

|                         |                                        |                                                         |
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## Disclaimer of Connectors

Our company will not be liable for any problems and losses caused by any of the following circumstances.

### 1. Product transportation and storage

1.1 During transportation and storage, products shall not be stored together with relevant chemicals in the "schedule of chemicals resistant", which can pollute these chemicals;

1.2 During the transportation and storage of products, do not put too much pressure on the products, and do not damage the products by impacting or other acts;

1.3 The products shall be stored at normal temperature during transportation and warehouse, and attention shall be paid to protection from light, water and dust to avoid reducing the performance of the products. Special attention shall be paid to the site of the power station.

1.4 The normal storage time of the product is 2 years.

### 2. Product installation and use environment

2.1 The normal working ambient temperature of the product is - 40 ~ + 85 °C;

2.2 The on-site installation of products shall be carried out in accordance with the "installation instructions" of "Zhongke Anrui";

2.3 The product must wear a dust cap before leaving the factory if the product is used in coastal, desert and other areas with a lot of dust;

2.4 When the product is used on the roof power station, the connector cannot be directly placed on the roof surface.

3. See "schedule of chemical resistance" for the compatibility between products and chemicals.

4. When the connector is not coupled, the product will not meet any IP protection level and cannot be used normally.

4.1 The product meets the requirements of IP68 protection grade after insertion, but it cannot be placed underwater or on the roof for a long time.

4.2 The connector shall not be placed outdoors for a long time without insertion, which may cause corrosion of metal parts and reduce the performance of the connector.

|                         |                                            |                                                         |
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4.3 If the connector cannot be inserted in time during outdoor installation and use, please protect the connector, and insert the "dust cap" on the connector port to prevent the connector from being polluted by water and dust, which will affect the product performance.

5. During the installation and use of the connector, the connector shall not be excessively collided or dragged on the grass and ground, etc. Prevent the connector from being polluted before use and reduce the product performance.

6. During the maintenance of the product, only professional maintenance personnel or trained personnel can enter the maintenance within 1.2m distance from the product space.

7. When repairing the product use tools to touch the product, and the minimum distance between the human body and the product must be at least 60mm.

#### 8. Connector mating

8.1 The "Zhongke Anrui" brand connector must be plugged into the positive and negative poles of the "Zhongke Anrui" brand connector, and cannot be plugged into other brand connectors in the market.

8.2 If the customer wants to plug in the positive and negative terminals of connectors of other brands, please contact us in advance.

The final interpretation right of this exemption clause belongs to "Shanxi Zhongke Anrui Energy Technology Co., Ltd.".

Shanxi Zhongke Anrui Energy Technology Co., Ltd. has the right to modify printing errors, or improve and innovate products. When there are any above changes, they will not be notified in advance. If there is any misunderstanding about this description due to different language versions, the Chinese version shall prevail.