

Junction box HO1



«Designed for thin film and low power crystalline PV modules»

- HUBER+SUHNER is offering complete connectivity Solutions for photovoltaic installations. With the Solarbox HO1 the proven RADOX® quality is extended to the complete interconnection between the modules and the inverters.
- The Solarbox HO1 is designed for thin film and low power crystalline PV modules. Thanks to the compact and solid state design it is uniquely small and at the same time fulfilling the heat dissipation requirements in the bypass mode in accordance to IEC 61646.
- The Solarbox HO1 has an outstanding resistance to harsh environments and can easily be connected to the back of the module either manually or in a fully automated process.

Junction box for thin film and low power crystalline PV modules

Features

- Easy handling/quick assembly
- Reliable, flat solid state design
- Snap on lid to allow easy welding/soldering
- Very small potting volume (app. 3.5 cm³)
- Lead free, RoHS-REACH compliant
- Schottky diodes with low leakage current

Benefits

- Low forward voltage drop through
 - Optimised contacting / Soldering of all components
- Outstanding moisture barrier due to potting
- Quick, clean potting by direct injection
- Ready for automation
- Minimised handling and assembly time
- Increased life time due to complete sealing and outstanding heat dissipation and thermal resistance
- Unique flat design for sophisticated module architecture
- RADOX® - for highest quality

Approval

- Comply with: IEC 61730, IEC 61646
- In process: DIN V VDE V 0126-5/05.08, UL 1703

| Electrical data | Item no. 12720108 | Item no. 84121410 |
|---------------------------------------|-------------------|-------------------|
| Rated voltage | 1000 V DC | 1000 V DC |
| Bypass voltage (typical) | < 170 V DC | < 1000 V DC |
| Rated current (I _{sc}) | 10.0 A | 7.0 A |
| Test current (I _{sc} x 1.25) | 12.5 A | 8.75 A |
| Use of diode | Bypass mode | Bypass mode |

| Physical / Mechanical data | |
|--------------------------------------|--|
| Overall dimensions (box only) | 54 x 48 x 11 mm (length x width x height) |
| Number of terminals | 2 |
| Contact principle for copper ribbons | Soldering or welding |
| Cable | 2 x RADOX® SOLAR cable, 2.5 mm ² , 800 mm length each |
| Connectors | RADOX® SOLAR connectors 2.5 mm ² push-pull |

| Environmental data | |
|---------------------|-------------------------|
| Temperature range | -40 °C to +85 °C |
| Chemical resistance | UV- and ozone resistant |
| Protection mode | IP 67 |

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

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It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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