

LC4-JCO

Photovoltaic junction boxes for crystalline modules¹, with overmolded housing, connecting cables and LC4® connectors, with connector receptacles and test ports, with 4 **weld/solder contacts** and 3 diodes, for ribbons fed through the back plane of the module, mounting with self-adhesive pad or by means of glue², with Lumberg-TAQnology™ for fully automated assembly and testing process

- 1. Temperature range**
 - 40 °C/+85 °C (IEC)
 - 40 °C/+90 °C (UL)
 - (+140 °C upper limit temperature)
- 2. Materials**
 - Housing/cover PA GF, V0/5VA according to UL 94
 - Lead frame Cu, tinned
 - Seal NBR
 - Adhesive pad upon request
 - Further data see LC4-CP/LC4-AM
- 3. Mechanical data**
 - Mating with photovoltaic connectors LC4
 - Further data see LC4-CP/LC4-AM
 - Protection degree (junction box)⁴ IP 65
 - Connected conductor** Photovoltaic cable, double-insulated, technical Data upon request
 - Section 4.0 mm² (AWG 12)
- 4. Electrical data (at T_{amb} 20 °C)**
 - Contact resistance ≤ 1.5 mΩ
 - Rated current (IEC) various diodes available, value depending on type of diode and diode bypass test, details upon request
 - Rated current (UL) 15 A DC
 - Rated voltage³ without diode, details upon request
 - Modul working voltage 1000 V DC (IEC)/600 V DC (UL)
 - Overvoltage category³ III (8 kV)
 - Material group³ I (IEC)/0 (UL) (CTI ≥ 600)
 - Protective class II
 - Insulation resistance > 10 GΩ

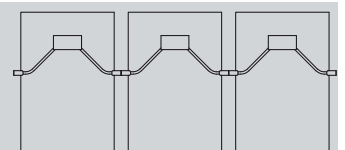
¹ according to application class A of IEC 61730-1/UL 1703
² appropriate materials upon request
³ according to IEC 60529/DIN EN 60529
⁴ according to DIN EN 60664/IEC 60664 resp. according to ANSI/UL 746A

Approvals under preparation

- *a self-adhesive pad option
- *b spacer option for fixation by means of glue
- *c cover, assembly hole for contact ribbons underneath
- *d test port
- *e connecting cable: section 4.0 mm² (AWG 12)
- *f left connector: LC4-CP 3..., or LC4-AM, in receptacle with test port (state of delivery)
- *g right connector: LC4-CP 3..., or LC4-AM, in receptacle with test port (state of delivery)

Crystalline modules: Wiring diagram

Two-pole junction boxes, for ribbons fed through the back plane of the module



Designation

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details upon request