

# Direct String Connection Kit

Direct connection of up to 18 strings to one inverter.



Installation Manual

## Safe. Flexible. Precise.

Designed for a DC system voltage of up to 1500 V

Direct connection of up to 18 strings to the inverter

Solution for the inverter series blueplanet 87.0 TL3 XL - 165 TL3 XL

Use of the XL version of the inverters with integrated DC-switch

Fuse sizes: 15 A, 20 A

Connection of PV strings via MC4-EVO2 connectors

In cooperation with

**HIS**  
we connect solar energy



1.



2.



3.



4.



5.



6.



7.



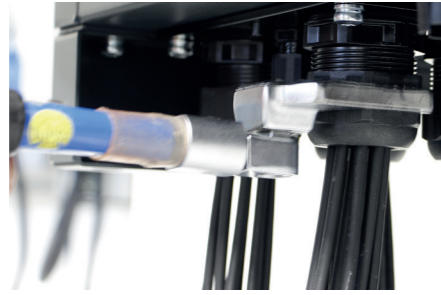
8.



9.1



9.2



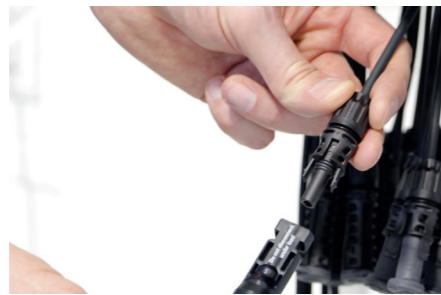
10.



11.



12.



13.

1. I.) Set DC disconnecter from 1 On to 0 Off  
II.) Remove the screws [T\_25]  
III.) Remove the inverter housing cover
2. I.) Remove the screws of the DC input plate [T\_30]  
II.) Remove DC input plate  
**Be careful not to damage the seal!**
3. - Loosen and remove cable fittings M40
4. - Remove the lock nuts of the cable fittings
5. - Insert the cable string bundles into the DC input plate  
**Ensure correct polarity!**
6. - Tighten the cable fittings with a suitable torque wrench and the appropriate turning moment 10 Nm (max. 20 Nm) (see installation leaflet of the DSCK\*)
7. - Position the DC input plate and tighten the screws with the correct turning moment [T\_30 / 6 Nm]
8. - Connect the cable lugs to the internal DC switch (see inverter manual)
- 9.1/9.2 - Tighten the screws with the correct turning moment [W\_17 / 30 Nm]
10. - Tighten the cap nut with a suitable torque wrench and the appropriate turning moment 10 Nm (max. 20 Nm) (see installation leaflet of the DSCK\*)
11. I.) Refit inverter housing cover  
II.) Tighten enclosure cover screws with correct turning moment [T\_25 / 4,8 Nm]
12. - Remove the dust protection caps of the DC connectors for the number of strings to be connected
13. - Connect the DC inline fuses to the DC connectors.

The safety instructions and warnings contained in the manual also apply to the installation of the DSCK\*.

\*Direct String Connection Kit

Installation tool

Code (s)	Shape of connector
W	External hexagon
A	Internal hexagon
T	Torx
S	Slot

