

## Background

The new Panasonic VBMS290AJ07 panel is fitted with MC4-EVO 2 connectors. This technote addresses concerns that mating the MC4-EVO 2 connector with a standard MC4 connector may be in breach of AS/NZS5033.

## Details

As per section 4.3.7 (k), connectors shall only be mated with those of the same type and from the same manufacturer.

The MC4-EVO2 connector is a type of MC4 connector and, like the MC4, manufactured by the Stäubli international AG. MC4 connectors can thus be mated with MC4-EVO2 connectors.

MC4-EVO2 connectors are fully compatible with standard MC4 connectors. This has also been verified with the Australian Clean energy Council:

“Our information, based on TUV certification and manufacturer data is that the MC4 family of connectors manufactured by Staubli (Multi-Contact) are considered the same make and model, allowing interconnection of genuine MC4 and MC4 Evo PV connectors.”

Further to the above, the TUV certification points out that MC4-EVO2 connectors are pluggable with standard MC4 connectors.

The MC4-EVO 2 certificate and the data sheets can be found via links below:

TÜV certificate: [https://ec.staubli.com/AcroFiles/Zertifikate/TUV/TUV\\_MC4-Evo-2\\_R60127169\\_en.pdf](https://ec.staubli.com/AcroFiles/Zertifikate/TUV/TUV_MC4-Evo-2_R60127169_en.pdf)

Datasheet: [https://ec.staubli.com/AcroFiles/Technical%20Info/PV\\_SOL-LVDC\\_\(en\).pdf](https://ec.staubli.com/AcroFiles/Technical%20Info/PV_SOL-LVDC_(en).pdf)