Microinverter Assignment #1

In groups of two. Select a microinverter and a PV panel from the list from the Grid Interactive Inverter Assignment #1 (Each group select a different microinverter).

From the manufacturers manuals (PV and microinverter) show whether they are compatible or not.

Include all appropriate data required to defend your recommendations.

Write your findings in a Word document and include manufacturer’s data from their manuals.

Using the 2023 NEC code rules size the conductors that cross the roof from the microinverter to the wall mounted Utility disconnect.

The length of the roof top portion to the utility disconnect is 50 meters. The portion from the utility disconnect to the main panel is another 3 meters.

Calculate the ampacity of the wire and the voltage drop / rise at the NEC allowable percent voltage drop.

Show all work and calculations and reference the NEC codes that are applicable for these calculations.