String Inverter Assignment #2

In groups of two. Select a string inverter and a PV panel from the list in the Grid Interactive Inverter Assignment #2 (Each group select a different string inverter).

From the manufacturers manuals (PV and string inverter) 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 array to the wall mounted string inverter.

The length of the roof top portion to the utility disconnect is 50 meters. The portion from the utility disconnect to the inverter 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.

Put as much PV power as possible into the inverter.