



Large System Guide

Part 2: Design

Checklist

1. Check availability of power and internet at the site
2. Check TS4 lead length, particularly for landscape modules
3. Check connector type for modules (MC4, etc)
4. Check string fuses – should be 15A for TS4

Create a Layout

1. Start with a drawing or plan of the system. The drawing must show scale and stringing.
2. Using the [TAP and Mesh](#) guidelines, determine the type and number of TAP units required. Selective deployment and the use of TS4 Duo may affect this.
 - a. See our articles, "[TAP Placement](#)" and "[Determine Number of TAP and Cloud Connect Units](#)" for details.
3. For TS4, check required lead length. For example, modules in landscape normally require longer leads than modules in portrait.

Example Design

See our [Sample Design](#) to see an illustration of the design guidelines in action. We will use this example as we go through the process of setting up and commissioning a large system.

Make a List of Assignments

1. Each string must be assigned to a single inverter and a single CCA. (You can't split a string across more than one inverter or CCA) – this is why stringing information is needed.
2. It is usually best to make a spreadsheet with this information.