

	Mounting in Landscape	created	JL
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INTRODUCTION

On some roofs it is easier to mount PV modules in landscape instead of portrait.

GUIDE TO USE

In this example, only one row of modules can be easily installed on the roof. This is not an ideal solution, as most of the roof is unused.



In comparison, landscape allows more modules to fit:



To mount the PV modules in landscape, run the SunLock rails up and down the roof, with an L-foot at each of the 5 battens. The rails may be long enough to hold four modules, filling the space completely from ridge to gutter. However, there might not be enough fixings to hold down four modules.

ENSURE SUFFICIENT ROOF SCREWS ARE USED

When installing in landscape, the main thing to check is that there are sufficient fixings to securely hold the solar PV frame to the roof frame. The SunLock installation manual can tell you the required fixing spacing for a traditional portrait installation, including how many extra fixings are required for edge zones.

To install in landscape, simply use the manual to work out how many fixings would be required for traditional portrait row, and then ensure the same number are used in the landscape row. For example, if you wish to install three panels in landscape on a 3 metre rail; in wind region B with drawing S6; then an L-foot would be required every 865 mm in the intermediate zone. This would mean five L-feet for the 3 metre rail.

In the example image below, use 4 metre rails so that they run from the purlin at the ridge cap to the purlin at the gutter – the rail then has five L-feet and is compliant.



THINGS TO CONSIDER

If you wish to install four modules in the landscape row then the panels will be in the edge zone and more fixings will be required. One option is to run a third SunLock rail either the whole way or just between the 1st and 2nd; and 4th and 5th purlins. This will provide extra fixings near the ridge and the gutter, in the edge zones. Another option is to use double fixing brackets instead of a standard L-foot – these will double the number of fixings.

If the purlin spacing is greater than 1.5 m then bending or deflection of the SunLock rail may become an issue. Please contact either Apollo Energy or a structural engineer prior to installation.

FURTHER INFORMATION

For further information contact Apollo Energy on 1300 855 484 or sunlock@apolloenergy.com.au.