

Residential Modules Clamp Zone Extension App Note for Australia

Rev	Description	Date	Author
1	Expanded Clamp Zones for P19 RES & P19 BLK, & 104-cell Maxeon Gen 2 and Gen 3 Module Families	12/19/2018	T. Gomez & J. Carbonell Padrino

1.0 Applicable Products

This change is applicable to the following product families:

- **E & X series 104-cell** residential and commercial product families
 - o SPR-MAX2-zzz, SPR-MAX3-zzz, SPR-MAX3-zzz-BLK
 - o SPR-MAX2-zzz-COM, SPR-MAX3-zzz-COM,
- **P-Residential**
 - o SPR-Pzz-yyy
 - o SPR-Pzz-yyy-BLK

Where 'yy' indicates module efficiency, and 'zzz' indicates module rating.

For the sake of clarity, changes apply to modules that are 1690 mm tall. These changes DO NOT apply to:

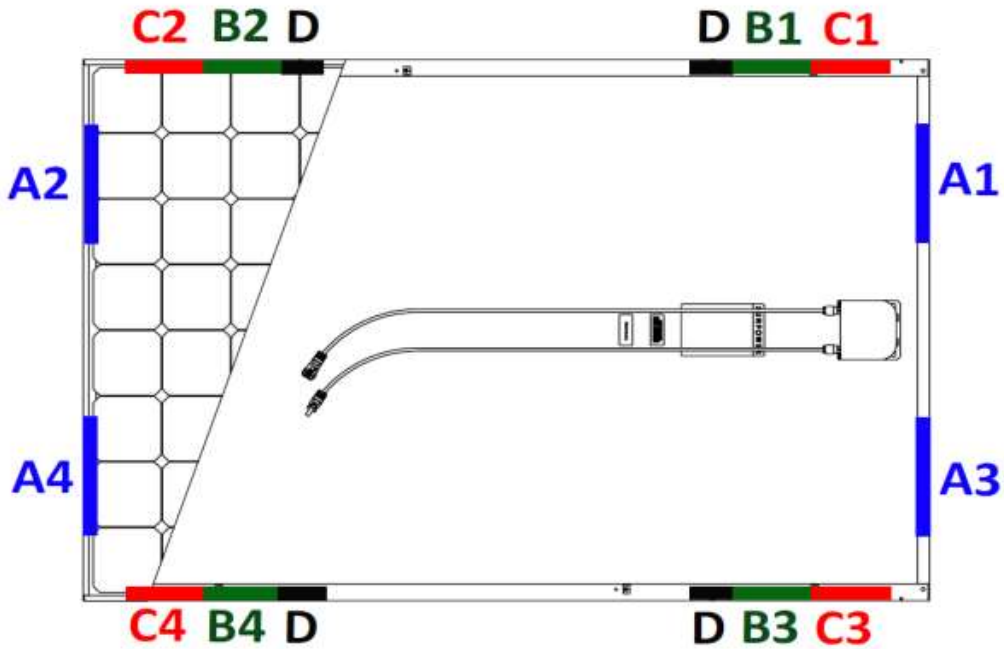
- E-Series and X-Series 96-cell modules
- E-Series and X-Series 128-cell modules
- P-Series-Commercial modules.

2.0 Summary

SunPower has re-defined residential panels clamp zones for all residential modules sold in Australia, in order to facilitate installation of modules on any roof type, with or without module level power electronics.

Allowed new clamp zones for Areas B & C are max load dependent as per graph and table below:

For 96 cells and P-Series Residential:



Design Load	2.4 kPa downforce / 2.4 kPa uplift	6.0 kPa downforce / 3.6 kPa uplift
Clamp Zones B & C (mm) ¹	50-640	230-440
Clamp Width Requirements (mm)		≥ 35
Maximum Clamp Torque (for flat/non-grounding clamp interface)	120 in-lbs (13.5 Nm)	
Maximum Clamp Torque (for serrated/grounding clamp interface)	50 in-lbs (5.6 Nm)	

1. Clamp zone distances are measured on long side from closest frame corner.