SunPower AC Modules:

Best Practices for Enphase Q Cable™ Selection and Management

Each SunPower AC module features an integrated Enphase microinverter attached to the module's backsheet. Because of the factory integration of the DC cable management, SunPower AC module installations differ than a typical microinverter + panel system installation.

This document outlines the cable management recommendations along the rails and module frame as well as accompanying schematics.

AC cable (or Enphase Q Cable™)* management is a critical part of system installation as per AS/NZS 4777. **This document should be used as a reference only.** All projects should be planned and executed in relation to job checklists, site constraints, etc.

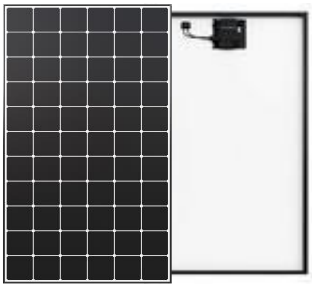
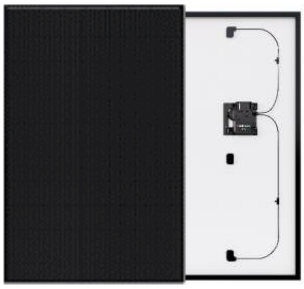
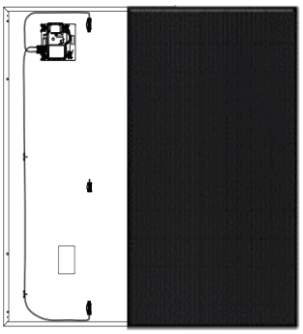
Purchasing Balance Of System + Cable Clips

All Enphase related balance of system needs to be purchased directly from authorized Enphase distributors. For recommendations, please contact your sales manager at SunPower.

Recommended cable clips for Q Cable management along the module frames:

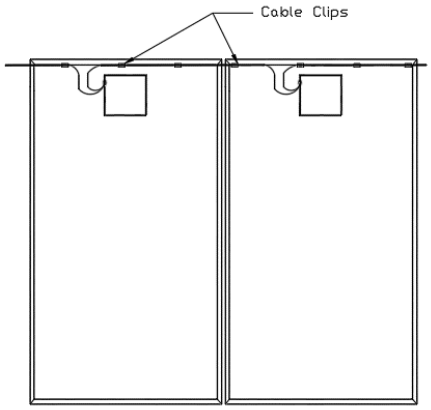
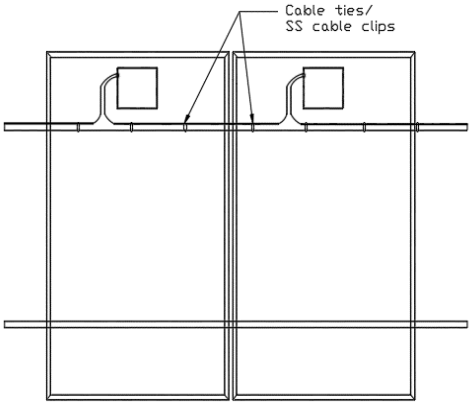
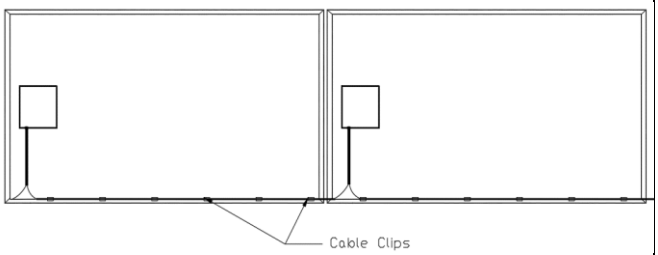
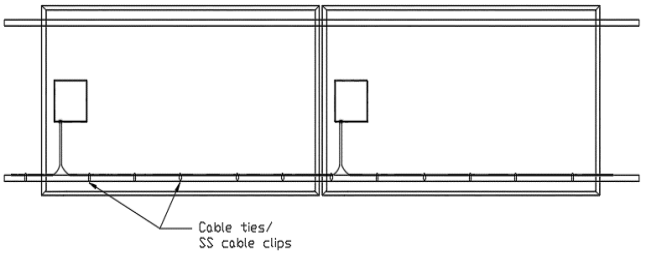
- Araymond Energies (Part numbers: 208738 + 056476: cable tie, 236331 + 056476: cable tie)
- Solar clips from Wiremarkers (SKU: CCTPA605)
- or other suitable cable clips to hold single phase and three phase Q Cables (as per installer's discretion and suitability for effective Q-cable management)

QUICK GUIDE

MODULE	INSTALLATION ORIENTATION	CABLE MANAGEMENT	RECOMMENDED Q CABLE LENGTH	DETAILS ON PAGE
MAXEON 5 AC/MAXEON6 AC [SPR-MAX5-xxx-E3/E4-AC]/ [SPR-MAX6-xxx-E3/E4-AC] 	Portrait	Using cable clips on module frame	1.3 m (Q-25-10-1p/3p) or 2.0 m (Q-25-17-1p/3p)	3
		Along the Rails	1.3 m (Q-25-10-1p/3p) or 2.0 m (Q-25-17-1p/3p)	3
	Landscape	Using cable clips on module frame	Not recommended	3
		Along the Rails	2.3 m (Q-25-20-1p/3p)/ Q Cable planning required	3
PERFORMANCE 3 AC [SPR-P3-xxx-E3/E4-AC]/ 	Portrait	Along the Rails	2.0 m (Q-25-17-1p/3p)	3
	Landscape	Along the Rails	2.3 m (Q-25-20-1p/3p)	3
PERFORMANCE 6 AC [SPR-P6-410-BLK-E9-AC] 	Portrait	Using cable clips on module frame	1.3 m (Q-25-10-1p/3p) or 2.0 m (Q-25-17-1p/3p)	4
		Along the Rails	1.3 m (Q-25-10-1p/3p) or 2.0 m (Q-25-17-1p/3p)	4
	Landscape	Using cable clips on module frame	2.3 m (Q-25-20-1p/3p)/ Q Cable planning required	4
		Along the Rails	2.0 m (Q-25-17-1p/3p)/ 2.3 m (Q-25-20-1p/3p)	4

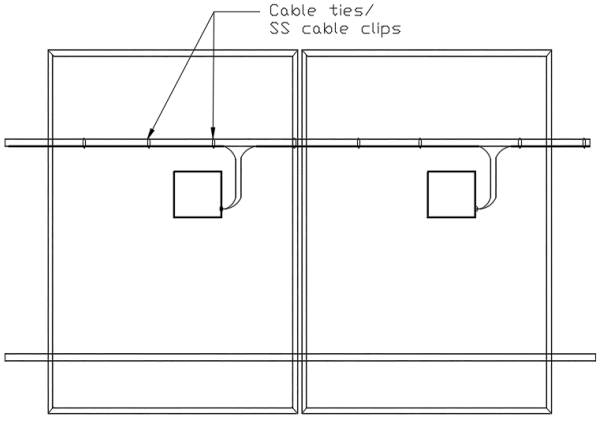
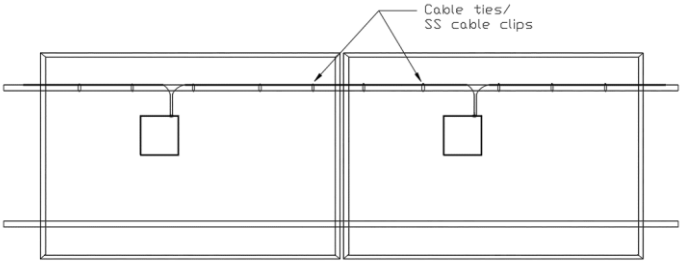
MAXEON 5/MAXEON 6 AC MODULES

The position of microinverter in MAX5/MAX6 AC modules is on the top end. Hence, the most recommended option of cable management is along the module frame by clipping Q-cable.

PORTRAIT: Along module frame	PORTRAIT: Along rails
	
LANDSCAPE: Along module frame	LANDSCAPE: Along rails
	

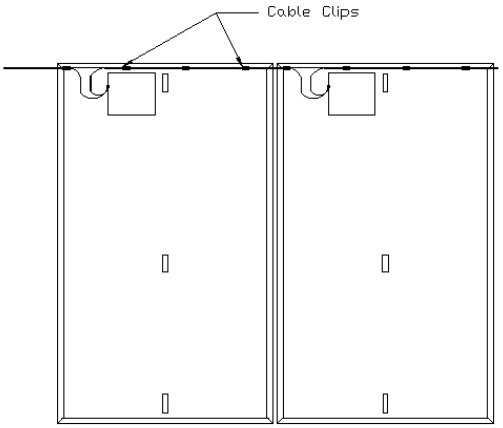
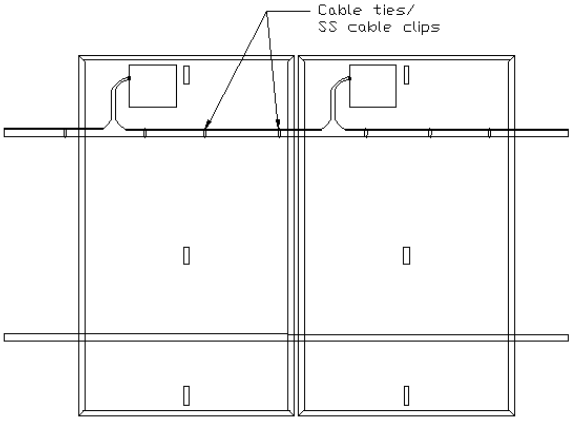
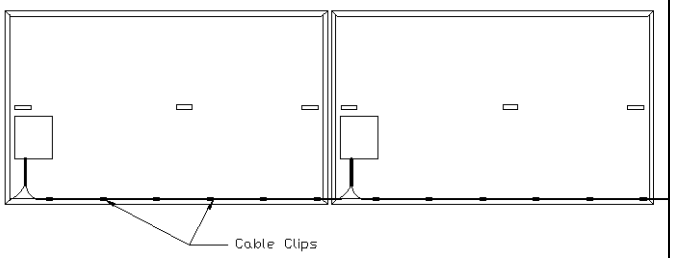
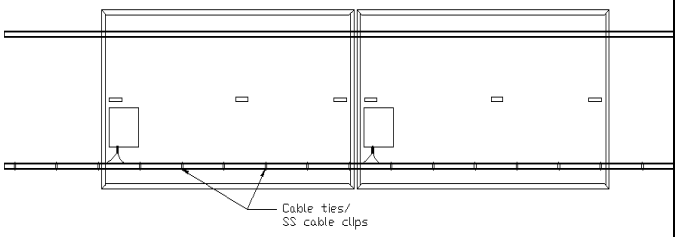
PERFORMANCE 3 AC MODULES

The position of microinverter in P3-AC module is on the middle of the module. Hence, the most recommended option of cable management is along the rails.

PORTRAIT: Along module frame	LANDSCAPE: Along rails
	

PERFORMANCE 6 AC MODULES

The position of microinverter in MAX5/MAX6 AC modules is on the top end. Hence, the most recommended option of cable management is along the module frame by clipping Q-cable.

PORTRAIT: Along module frame	PORTRAIT: Along rails
	
LANDSCAPE: Along module frame	**LANDSCAPE: Along rails**
	

ADDITIONAL QUESTIONS?

First-time microinverter installation resources from Enphase are available here:
Getting Started with Enphase
Enphase Documentation
Enphase University

Visit the section under “AC Modules” in SunPower Australia’s website:
SunPower Australia Product Resources
FAQ

