

The ACRak 300 combines Darfon MIG300 micro inverters with IronRidge XR rails to create an easy-to-install, out-of-the-box solution. Locking cable connectors and XR100 splices eliminate the need to cut rails, install cabling or mount micro inverters, saving time and money. Now, building a solar array is as simple as mounting and grounding rails, connecting sections and mounting the panels of your choice.



Assembled in the USA

FEATURES

PLUG-N-PLAY DESIGN

- Pre-assembled into an all-in-one flat-pack
- Easily snaps together with locking connectors

FLEXIBLE PV ARRAY DESIGN

- Pre-cut into manageable sections to accommodate a variety of PV array layouts
- Supports 60- and most 72-cell panels
- Up to 16 micro inverters per 20A circuit
- Scalable for future expansion

IMPROVED SAFETY

- Low DC voltage ensures installer and fire safety
- Satisfies rapid shutdown requirements
- Reduces the amount of time required on the roof

PACKAGE OPTIONS

1P	Micro inverter, cabling and racking for a single PV panel to handle limited roof spaces and flexible array design.
4P	Micro inverters, cabling and racking for 4 PV panels. Racking pre-cut into 2-panel** sections for modularity.
24P	Micro inverters, cabling and racking for 24 PV panels. Racking pre-cut into 2-panel sections for modularity.

Combining/Dividing Packages

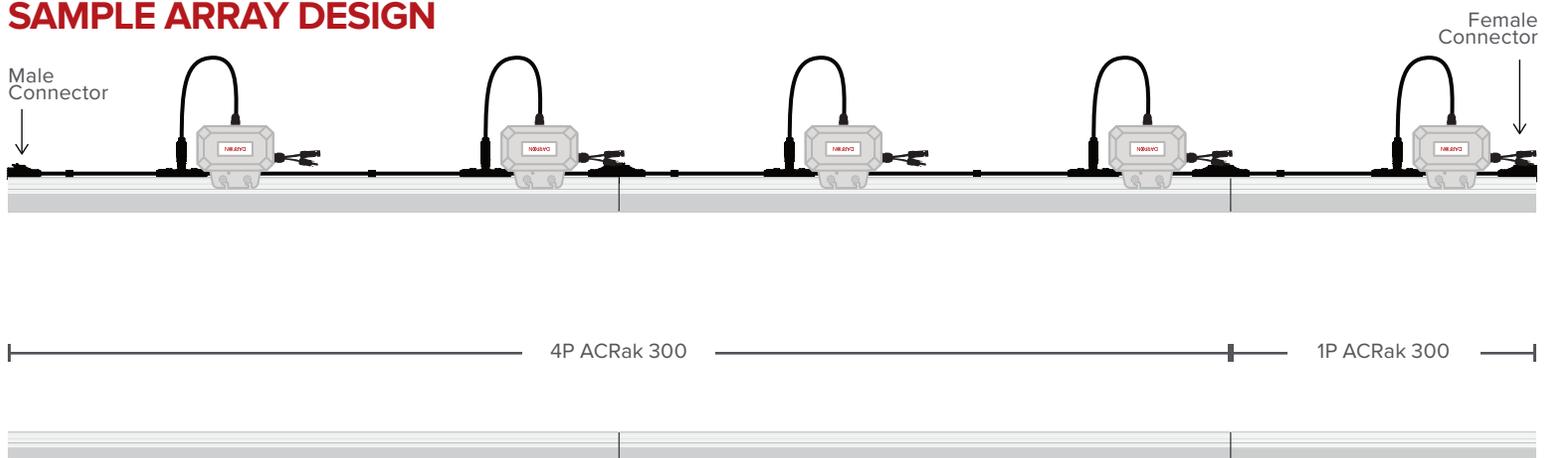
Because each package consists of modular pieces, packages can be combined or divided to satisfy a variety of PV system designs.

Examples of package utilization:

- A PV system with two rows of seven panels can be accomplished with two 1P and three 4P package options.
- The 24P package option can be divided and used for multiple PV systems, such as, two 12-panel PV systems or a 10-panel and 14-panel PV system.

**The width of a 1-panel section is 42.5". The width of a 2-panel section is 85".

SAMPLE ARRAY DESIGN



For more information, visit/contact us at www.darfon.com or pvsales@darfon.com

EASY 3-STEP PROCESS*

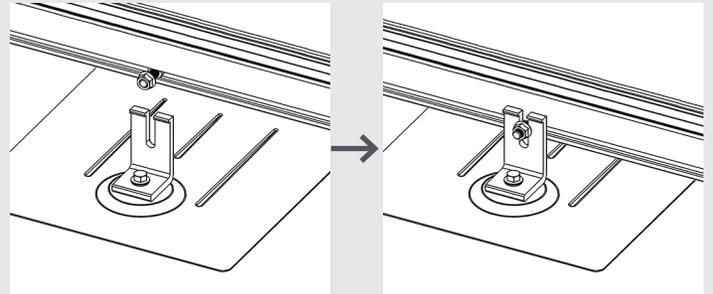
The ACRak 300 solution includes micro inverter(s), cabling and racking. Please work with your distributor to purchase the additional items needed to complete your PV system.

ADDITIONAL HARDWARE REQUIRED

- PV Module
- IronRidge End Clamps and Mid Clamps
- L-Feet
- Roof Specific Mounts (L-Foot Compatible)
- IronRidge Expansion Joints (If Needed)
- Extension Cables (As Needed)
- Ground Wiring
- Monitoring System (Data Logger/PLC Box)

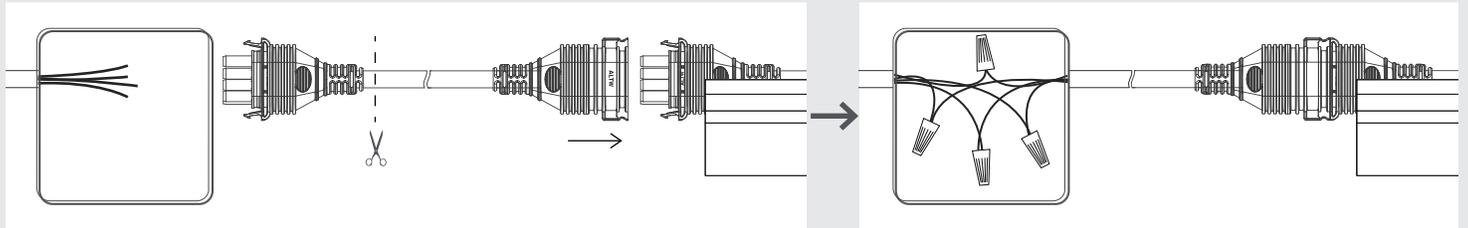
1 ATTACH RAILS AND GROUND WIRE

Loosen and space the bolts to match the roof attachment spacing. Drop the rail with hardware into the Slotted L-Feet. Install ground wire to the installed ground lug.



2 CONNECT TRUNK CABLE TO GRID

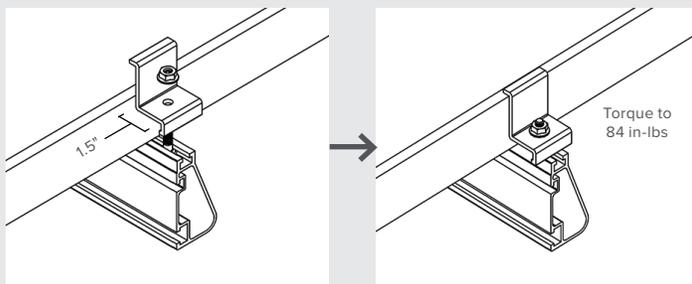
Attached the extension cable to the trunk cable on the rail. Cut the unused connector from the extension cable and wire to the grid-tie conductors.



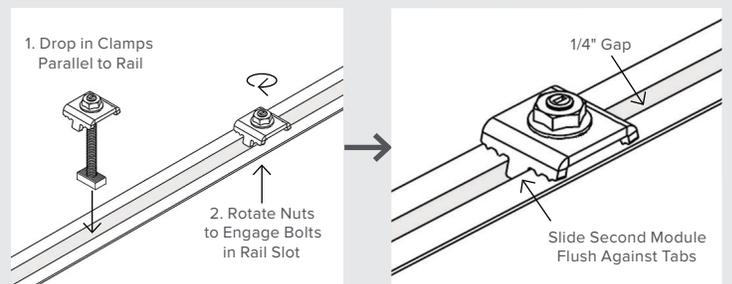
3 MOUNT THE PV MODULES

Connect the PV modules and the micro inverters leads as you are mounting and securing the PV modules onto the rails with end clamps and mid clamps.

INSTALLING END CLAMPS**



INSTALLING MID CLAMPS



*For detailed instructions, refer to the ACRak 300 installation manual.

**End and mid clamps are not included. Module clamp sizes vary depending on the PV panel. Please work with your distributor to order the appropriate size.

	Darfon MIG300	IronRidge XR100
Compliances	FCC Part15 Class B, UL1741, ISO 9001	UL2703
Manufacturer Warranty	25-Year Limited Warranty	20-Year Limited Warranty

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