

# Solar FlexRack G3-X Fixed Tilt Racking + First Solar Series 6

## The High Yield Advantage



Solar FlexRack is one of the market's most trusted brands in solar racking solutions. Its innovative, dependable and cost-competitive solar trackers, fixed tilt racking and project services, dramatically reduce project risks for solar project asset owners, developers and EPCs.

Combine Solar FlexRack's proven track record with First Solar's advanced Series 6 thin film modules for higher project energy yields and ultra-dependable solar project installations.

### Solar FlexRack Racking Features

- The ability to mount First Solar Series 6 modules in various portrait configurations to maximize watts per post
- Flexible configurations are available for 1,000V or 1,500V systems
- Quick Connect, upper and lower directional torquing module mounting clamps with integrated bonding for superior installation speed and flexibility
- Hat channel module vertical rails provide required stiffness to support and safeguard the modules' unique construction while maintaining a simple and cost-competitive installation process

### The System Features

- A completely integrated and efficient solution that allows for the highest market value proposition and lowest cost to install
- Independently certified for reliable performance in high temperature, high humidity, extreme desert and coastal environments
- First Solar's advanced proven Cadmium Telluride (CdTe) modules deliver higher energy yield, proven reliability and industry-leading durability
- A fully bankable solution with a lower levelized cost of energy that provides better system performance in real-world conditions than conventional modules



# Solar FlexRack G3-X Fixed Tilt Racking for First Solar Series 6

## Materials

<b>Module Mounting Hardware</b>	Aluminum and Magni 500 coating
<b>Racking Hardware</b>	Hot Dip Galvanized (HDG)
<b>Racking Structure</b>	G90, Hot Dip Galvanized (HDG) per ASTM123 or greater for high corrosion areas
<b>Foundations</b>	Hot Dip Galvanized (HDG) per ASTM123

## Design

<b>Orientation</b>	Portrait
<b>Tilt Angle</b>	10° to 35° (custom tilts can be accommodated)
<b>Racking Slope Tolerance</b>	20% east-west and north-south slope accommodations governed by post installation capabilities (does not adversely affect design)
<b>Racking Snow/Wind Loading</b>	Per ASCE7-10 local site specific requirements
<b>Ground Coverage Ratio (GCR)</b>	Combined racking and module solution tolerates higher than typical GCR due to the module's robust shade tolerance
<b>Foundations</b>	Racking is designed to incorporate optimal string sizes and allows for the least amount of posts per modules
<b>Foundation Types</b>	W-sections, roll formed smartpost, round post, ground screw, helical pier, ballast (pre-cast or cast in place)
<b>Module Mounting Types</b>	Quick Connect aluminum clamps with integrated bonding
<b>Warranty &amp; Design Life</b>	20-year product, 30-year service on (HDG) components
<b>Design Standards</b>	Per ASCE7-10 local site specific requirements

## 40 Years & Over 2.5 Gigawatts

Solar FlexRack, a division of Northern States Metals, is an integrated solar company that offers custom-designed, fixed tilt ground mount and single-axis solar tracking systems in the commercial and utility-scale solar industries. Solar FlexRack offers full turnkey packages including engineering, geotechnical, pullout testing, field, layout, and installation services to address the actual site conditions of an installation and provide a full scope of services from design to delivery and installation. Solar FlexRack has completed over 2.5 GW of solar racking installations in 40 states across America and five countries globally. For more information visit [solarflexrack.com](http://solarflexrack.com).

