

## Solar Energy South Africa

# Finland ironridge bx



## Overview

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What is ironridge BX?

IronRidge® BX delivers superior power density and design flexibility to flat roof solar arrays. Made of a glass reinforced composite, the BX Chassis is engineered for extreme structural loading, yet is also shaped to be roof-friendly and easy to install. Corrosion-free and engineered for long-term structural performance.

What does the ironridge listing cover?

IronRidge systems have been fully listed to the UL 2703 standard by Intertek Group plc. UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Does ironridge have a Class A rating?

Therefore, the rating is applicable to any module to roof gap. IronRidge is currently Class A certified for Flush Mount applications parallel to roof with Type 1 and 2 modules. Tilt Mount systems are certified with Type 1 modules. What if I have a Class C roof, but the jurisdiction now requires Class A or B?

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Does ironridge UFO rust?

The UL 2703 certification process included extensive environmental and corrosion testing. The high quality stainless steel used in the IronRidge UFO does not cause significant galvanic corrosion, even in extreme environments.

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### IronRidge BX-10D-P1 BX Chassis Ballasted Mount 10 Degrees

The IronRidge® BX System is designed to meet the needs of commercial solar--navigating complex roof layouts, while also handling the most extreme environmental conditions. At the core of the BX system is the Chassis, a ballasted mount made of BASF Ultramid. Ultramid polyamides are exceptional for their high mechanical strength, rigidity and

### Domestic Content with IronRidge Racking & Enphase Microinverters

The BX system is currently manufactured in the US and can contribute meaningfully to reaching the 40% Domestic Content minimum for C& I projects. Projects using our BX solution can qualify for the ITC Domestic Content bonus credit through the IRS guidance that was issued in May, 2023. IronRidge sources material through a global, diversified


 **TAX FREE**    

**Product Model**  
 HJ-ESS-215A(100KW/215KWh)  
 HJ-ESS-115A(50KW 115KWh)

**Dimensions**  
 1600\*1280\*2200mm  
 1600\*1200\*2000mm

**Rated Battery Capacity**  
 215KWH/115KWH

**Battery Cooling Method**  
 Air Cooled/Liquid Cooled




### [Webinar: IronRidge BX Ballast System](#)

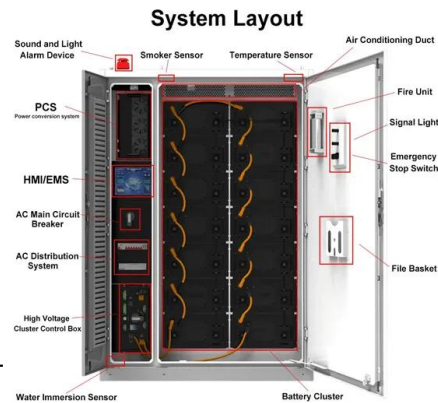
Join us as for a training on IronRidge's Ballast solution, BX. This will cover the benefits and features as well as installation of this product line. If you have any issues, please contact IronRidge Tech Support at 1-800-227-9523 ext 1 or email support@ironridge . CLOSE CLOSE CLICK ON THIS LINK TO REGISTER FOR INTERSOLAR

2023. Then

## **BX BALLASTED SYSTEM UTILIZES GLASS-REINFORCED**

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**BX CHASSIS** Every component in the IronRidge BX Ballasted System has been tested to the limit and proven to endure. Our rigorous approach includes unique structural features, such as multi-dimensional clamps, 360° reinforcement, and a roof-friendly design. All of our products are fully-certified, code-compliant, listed



## [Flat Roof Mounting Solutions](#)

BX Chassis is designed to clamp PV modules and secure them in place. The Chassis is available in two SKUs: 5 and 10 degree tilt configurations. Racking: IronRidge: Ballasted, Flat Roof: Fixed Tilt Legs Tilt assembly to the desired angle, up to 30 degrees. Kits include South and North Tilt Leg and all hardware. Racking: IronRidge: Flat Roof

## [Resources , Ballasted Flat Roof](#)

IronRidge systems have been fully listed to the UL 2703 standard by Intertek Group plc. UL 2703 is the standard for evaluating solar mounting systems. BX-5D-P1: BX Chassis 5 deg: Chassis: BX-10D-P1: BX Chassis 10 deg: Top Clamp: BX-TCL-30MM-M1: BX Top Clamp, 30mm, Mill: Top Clamp: BX-TCL-32MM-M1: BX Top Clamp, 32mm, Mill: Top Clamp: BX-TCL



## **UL 3741 , BX Ballasted Systems , Commercial Solar**



The BX Ballasted System is listed to UL 3741 and approved with select string inverters that incorporate safety requirements for rapid shutdown. Without the need for MLPE, system costs can be dramatically reduced, saving on ...

[Design Assistant Tools](#)

BX Ballasted Flat Roofs Ground-Based on Open Fields NEW! Atlas for Pitched Roofs. FORGE A PATH AHEAD If you have any issues, please contact IronRidge Tech Support at 1-800-227-9523 ext 1 or email support@ironridge . CLOSE CLOSE CLICK ON THIS LINK TO REGISTER FOR INTERSOLAR 2023.



[BX Flat Roof Attachment](#)

BX BALLAST SYSTEM. 5 & 10 Degree Chassis; DOCUMENTATION. XR System; QRail System; BX Ballast System; Ground Based. XR Ground Mount System; Documentation; Design Tools. If you have any issues, please contact IronRidge Tech Support at 1-800-227-9523 ext 1 or email support@ironridge . CLOSE CLOSE CLICK ON THIS LINK TO REGISTER FOR

**IronRidge BX-10D-P1 BX Chassis Ballasted Mount 10 ...**

IronRidge BX-10D-P1 BX Chassis Ballasted Mount 10 Degrees. The IronRidge® BX System is designed to meet the needs of commercial solar--navigating complex roof layouts, while also handling the most extreme environmental ...





## [BX Ballasted Systems Listed to UL 3741](#)

The IronRidge BX System is listed to UL 3741, in addition to UL 2703, offering more design flexibility. This includes the option to design without using MLPE devices, which can reduce material and installation costs. Refer ...

## [Flush Mount Systems Listed to UL 3741](#)

IronRidge Edge Clips (BX-CT-EC-PZ) and Cable Ties (BX-CT-UV-PZ) are wire management components that are evaluated to UL 1565 (wire positioning) and/or UL 62275 (cable ties) and are approved for use. They are part and the UL 3741 Listing. A listing of approved PV Hazard Control Equipment or components is provided in the UL 3741 Installation



## [BX Ballasted Systems Listed to UL 3741](#)

The IronRidge BX System is listed to UL 3741, in addition to UL 2703, offering more design flexibility. This includes the option to design without using MLPE devices, which can reduce material and installation costs. Refer to the BX Installation Addendum for instructions on how to design and build a UL-3741-compliant system.

## **BX Edge Clip**

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Support at 1-800-227-9523 ext 1 or email support@ironridge . CLOSE CLOSE CLICK ON THIS LINK TO REGISTER FOR

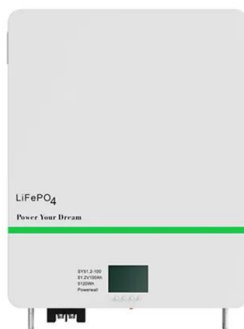
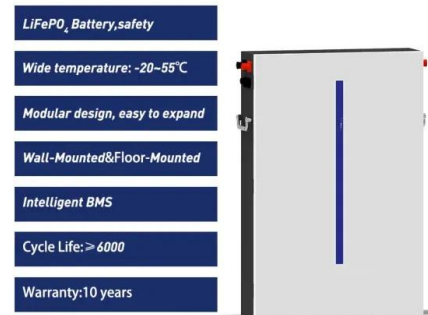


## BX Top Clamp

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## IronRidge 10° Chassis BX Ballasted Mounting System

IronRidge 10° Chassis BX Ballasted Mounting System - 1 Unit - BX-10D-P1 o EcoDirect sells IronRidge Solar Panel Mounts at the lowest cost. Order Online or Call Us! 888-899-3509. Request a Quote! Toll Free:(888) 899-3509; Local: (760) 597-0498; My Account , About Us / Contact



## UL 3741 PV HAZARD CONTROL INSTALLATION ADDENDUM

All Modules listed in BX Module Compatibility Section with max module area of 30.5ft<sup>2</sup> BX Components o 5 Deg BX Chassis (BX-5D-P1) o 10 Deg BX Chassis (BX-10D-P1) o Bottom Clamp (BX-BCL-M1) o Top Clamp (BX-TCL-XXMM-M1), where XX is 30 thru 46 BX Accessories o Bonding

Jumper (BX-MB8-M1 and BX-RB38-M1)

## BX BALLASTED SYSTEMS LISTED TO UL 3741 INSTALL BX

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IronRidge's BX UL 3741, Photovoltaic Hazard Control System (PVHCS) listing, allows systems to be designed up to 1000V without the need for module-level power electronics (MLPE). Cost Savings on BX Projects The BX Ballasted System is listed to UL 3741 and approved with select string inverters that incorporate safety requirements for rapid



## Domestic Content with IronRidge Racking & Tesla Powerwall ...

The BX system is currently manufactured in the US and can contribute meaningfully to reaching the 40% Domestic Content minimum for C& I projects. Projects using our BX solution can qualify for the ITC Domestic Content bonus credit through the IRS guidance that was issued in May, 2023. IronRidge sources material through a global, diversified

## [Aire® Racking for Flat Roofs](#)

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- LIQUID/AIR COOLING
- ON GRID/HYBRID
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES

## [Resources , Ballasted Flat Roof](#)



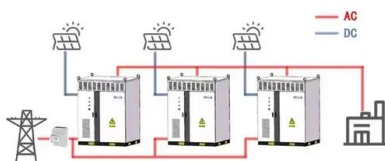
BX Edge Clip Cable Tie Cut Sheet. BX Chassis. BX Chassis 10 degrees Cut Sheet. BX Chassis 5 degrees Cut Sheet. BX Chassis Tech Brief. BX Clamps. IronRidge has a number of parts that are manufactured in the United States and qualify for the IRS domestic content bonus credit. Rails. Type P/N Description Finish; XR 10:

### **IronRidge BX-10D-P1 :: BX Chassis :: PLATT ELECTRIC SUPPLY**

At the core of the BX system is the Chassis, a ballasted mount made of BASF Ultramid. Ultramid polyamides (nylon) are exceptional for their high mechanical strength, rigidity and thermal stability. Moreover, Ultramid polyamides afford good impact resistance even at low temperatures, advantageous sliding friction properties and problem-free



WORKING PRINCIPLE



## [BX Grounding Lug](#)

BX BALLAST SYSTEM. 5 & 10 Degree Chassis; DOCUMENTATION. XR System; QRail System; BX Ballast System; Ground Based. XR Ground Mount System; Documentation; Design Tools. If you have any issues, please contact IronRidge Tech Support at 1-800-227-9523 ext 1 or email support@ironridge . CLOSE CLOSE CLICK ON THIS LINK TO REGISTER FOR

### **Domestic Content with IronRidge Racking & SolarEdge Inverters**

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## Contact Us

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For catalog requests, pricing, or partnerships, please visit:  
<https://www.ian-solar.co.za>