

AMS 2.8 Ballasted Ground Mount System

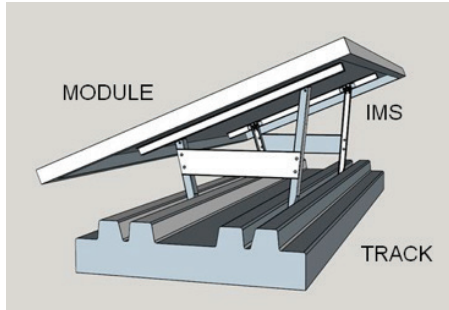
Alion Mounting System (AMS)

is a fixed tilt, ballasted, low profile, high wind capable mounting system designed to simplify installation and operations & maintenance.

- Fully ballasted, high wind zone capable
- Fewest parts and fastest install time of any ground mount system
- Only system capable of fully automated cleaning & maintenance robots (see information for SPOT)
- 30 Year Warranty
- Independent assessment by Black & Veatch
- Wind tunnel tested by CPP
- UL 2703 Tested
- Low bearing pressure and distributed profile reduce long term ground settlement risk
- Framed or Frameless panel compatible
- Ideal solution for rocky, hard and challenging environments & ground



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System Information

The primary components of the AMS are a continuous, jointed concrete track and a galvanized, factory integrated metal support (IMS) attached to the module before shipping. They are designed for rapid, low cost installation. The track is optimized for site and environmental demands.

Low Loads

Minimum wind loads
Minimum bearing pressures
Minimum support forces

Strong Integrated Metal Support

Factory installed
Works with framed and frameless modules
No field installed structural fasteners
Light 25 Pa (0.5 psf) steel weight
Up to 4500 N (1000 lb) rated capacity per module

Multi-function Track

Wind ballast
Seismic sliding resistance
Guide for SPOT cleaning
Supports automated inspection and maintenance
Track anchorage up to 4500N (1000 lb) per module

Grounding

The AMS grounding system is designed for compliance with UL 2703. Each AMS frame is internally bonded through mechanical connections. Grounding to the module frame, between modules and to ground uses AWG wire, ring terminals and fasteners. A single bolt and nut for each module are needed in the field to complete the grounding string. Power cables are mounted to the back of the AMS using long life plastics ties designed for solar installations.

Warranty

30 Year Limited Product Warranty

Technical Information

Design Standards

Loads: ASCE 7
Concrete Track:
ACI 318 - Structural Plain Concrete
Integrated Metal Support: AISI S100
Bonding and Grounding: NEC

Envelope Design Specifications

Module type: Framed and dual glass
Module tilt: 5° to 33°
ASCE 7-10 wind speed: up to 74 m/s (165 mph)
ASCE 7-10 ground snow load: up to 1500 Pa (30 psf)
Seismic peak ground acceleration: up to 1 g
Environmental range: UL 2703
Corrosion classes: C1 to C4
Bonding and grounding: UL 2703
String voltage: up to 1500 V
Module amperage: up to 15 amps

Materials

Concrete: ACI 318 Compliant
IMS Cold Formed Steel: ASTM A653M SS
Grade 50 – G90 and greater
Structural Epoxy: Hiliti RE-500 SD

Testing

Wind tunnel tested by industry leader CPP; ASCE 7-10 standards.
Black and Veatch Independent Assessment
UL 2703 Tested

