



## Netshelter SX Load Rating Information

There are three load ratings for the NetShelter SX cabinets: Shipping Load, Dynamic Load, and Static Load. The definitions for each rating, and NetShelter SX load ratings are provided in this document. If you have additional questions, please contact customer support.

Static Load Rating (on leveling feet or castors, static) per UL 2416:

- 3,000 lbs for all 24U and 54U models, 600 & 750mm widths and 1070mm & 1200mm depths.
- 3,750 for all 42U through 48U models, 600mm & 750mm widths and 1070mm & 1200mm depths.
- 3,750 for all 52U models, 600mm & 750mm widths and 1200mm depth.
- 600 lbs for 12U models.
- 900 lbs for 18U models.

Dynamic Load Weight Rating (on castors, rolling) per UL 2416:

- 2250 lbs for all cabinets, 24U through 54U models, 600mm & 750mm wide, and 1070mm & 1200mm depths.
- 2500 lbs for AR3387DX817.
- 600 lbs for 12U models.
- 900 lbs for 18U models.

Shipping Load Weight Ratings, per ISTA 3E:

- 2,000 lbs maximum for AR3xxxSP models, 42U through 54U models, 600mm & 750mm wide, and 900mm, 1070mm & 1200mm deep.
- 3,500 lbs maximum for AR93xxSP models, 42U through 48U models, 600mm & 750mm wide, and 1070mm & 1200mm deep.
- 600 lbs for 12U models.
- 900 lbs for 18U models.
- 1250 lbs for 24U AR3104SP1.

### **Weight Rating: Shipping Load**

Shipping Load Weight Rating is the maximum allowable weight of equipment installed in the cabinet during any shipping process where the cabinet is to be moved outside the data center. Shipping cabinets with equipment installed requires the use of a special cabinet with heavy duty shock packaging. The standard SX pallets are rated for a total weight of 500lbs, which includes the weight of the cabinet and should not be used for shipping of IT equipment. Shock packaging is required to ship a cabinet with installed equipment. Shock packaging is a cushioned pallet designed to absorb some of the impact forces experienced during the shipping process (truck or rail vibration and impact). This packaging has undergone rigorous testing to ensure safe transport. Shock Packaging includes a cushioned (single use) pallet, ramps, heavy duty castors and a reusable box. Inside the cabinet the rails also include extra screws to assure they remain in place during transit.

### **Weight Rating: Dynamic Load**

Dynamic Load Weight Rating is the maximum rolling load of the cabinet. This is the maximum allowable weight of equipment installed in the enclosure during movement from one location to another within the same data center. This assumes level flooring on a smooth surface. Dynamic Load is often confused with Shipping Load. These two ratings are different, and care should be taken to distinguish between the two ratings depending on the application. In conjunction with the cabinet rating, the applicable ratings of any raised floor or other flooring installed in the data center should not be exceeded.

Example: When moving a cabinet from one row to another in a datacenter, equipment must be removed until the weight is below the Dynamic Load limit before being moving the cabinet.

### **Weight Rating: Static Load**

Static Load Weight Rating is the maximum allowable weight of equipment installed in the cabinet while it's stationary in one position in the data center. It is necessary to lower the leveling feet once the equipment weight exceeds 2,250 lbs (or weight noted above) to fully support the load across the frame of the cabinet. In conjunction with the cabinet rating, the applicable ratings of any raised floor or other flooring installed in the data center should not be exceeded.

Example: Once a cabinet is received and moved to its final location in the data center the leveling feet should be lowered to touch the floor. Equipment can then be loaded in the cabinet until the total equipment weight reaches the Static Load limit. If the cabinet needs to be moved in the future, the weight will have to be reduced until the Dynamic Weight Rating of 2,250 lbs (or weight noted above) maximum is met.