

# AP FREEDOM™

Multibay Outdoor Enclosure for Rackmount Equipment

Type 4X



**AMERICAN®**  
**PRODUCTS**   
Turn-Key Enclosure Solutions

**AP FREEDOM™ Standard Offerings**



**Al .125** **.125 / .190 Aircraft Grade Aluminum:** Outstanding corrosion resistance.

**NEMA Protection:** Protection Level Type 4X. This enclosure is also tested and certified to UL 50 / 50E standards for safety.

**SS** **Stainless Steel Hardware:** We choose the highest quality materials to produce our enclosures. Type 304 stainless steel hardware prevents rust in the field.

**Powder Coat** **Powder Coating:** Enclosures are powder coated and tested for outdoor telecom enclosures.

**115V** **Power:** A pre-wired 20 Amp quad receptacle is a standard feature.

**19" / 23"** **Numbered Adjustable Equipment Racks:** 19" or 23"

**Solar Shield Roof:** Includes a double wall roof to reduce the radiant heat and internal cooling requirements of the enclosure.

**External Ground Lug**

**Locking:** Extremely secure, strong and impermeable. Lockable handles and hinges are made from Type 304 stainless steel.

**Lifting Eyes:** Crane ready lifting eyes for a convenient way to offload and position your enclosure.



**Standard Color / finish choices:**  
Colors shown here are approximate.



Triple-Bay Shown with Options



Dual Bay



Triple Bay

**Call a Sales Representative for Assistance.**

**AP FREEDOM™ Options**



**Load Center**



**LED Interior Lighting**



**Additional Set of Rails**



**Laptop Tray**



**Generator Plug & Interlock**



**Battery Tray**



**Battery Compartment**



**L Rail Set**



**Door Alarm**



**Insulation**  
Recommended for climate control options



**Mounting Plinth**  
4" or 6"

**AP FREEDOM™ Climate Control Options**



**AC 1,000 to 12,000 BTU/hr**

- Built-in Heater
- Corrosion Protection
- Cold Start Heater



**Exhaust Fan**

- 115VAC / 12, 24, 48VDC
- Adjustable Thermostat
- Filters

**Heat Exchanger**

- Consult factory for sizes.



**AC 1,000 to 6,000 BTU/hr**

- 48 VDC Powered



**Heater**

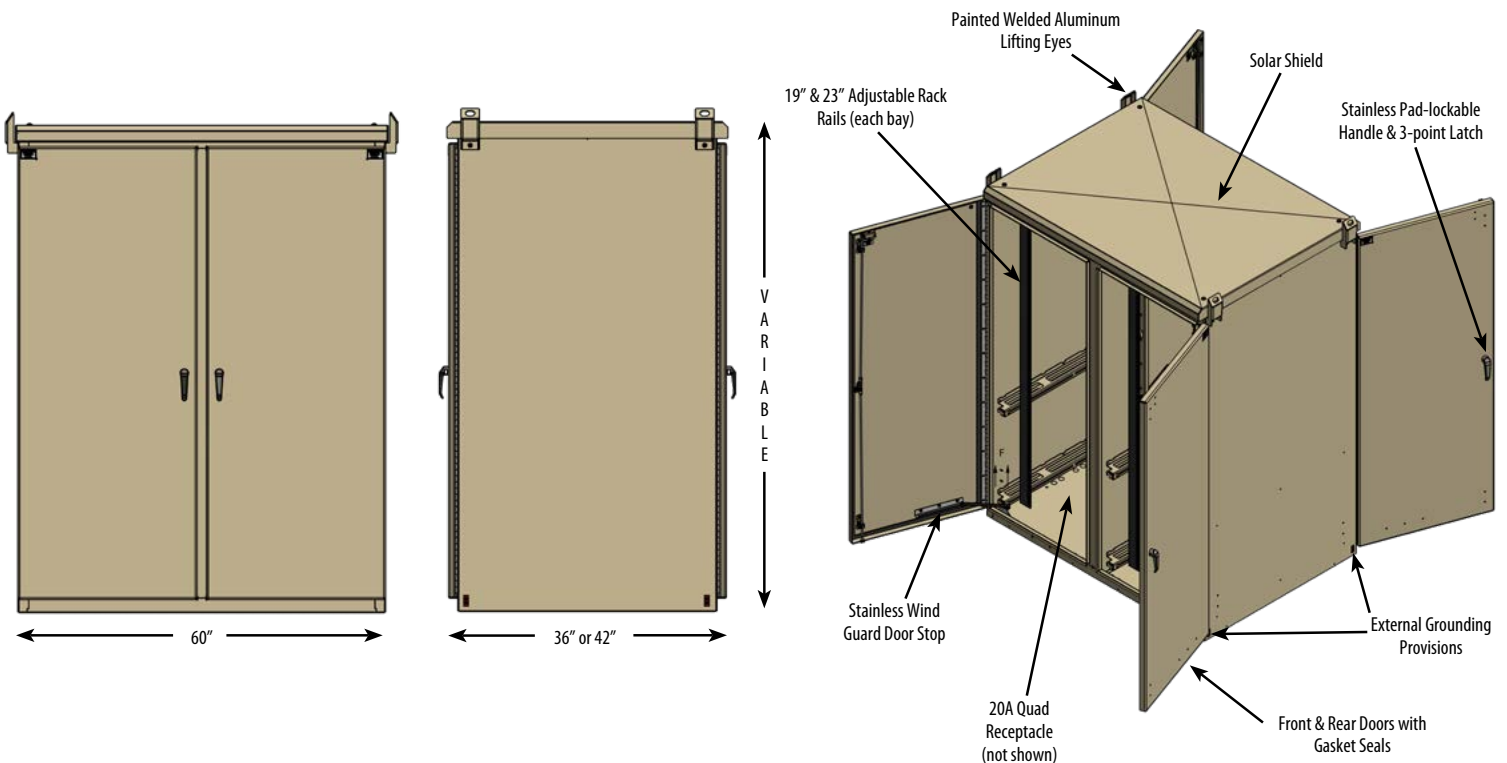
- Built in adjustable thermostat
- 100W-1000W 115VAC



**Battery Heater Pad**

- 115VAC
- Fits on Battery Tray

**AP FREEDOM™ Basic Layout**



**Call a Sales Representative for Assistance.**

# AP FREEDOM™

## Multibay Technical Specifications



PART NUMBER	ENCLOSURE SIZE	CAPACITY	BAYS / DOORS	EST. WEIGHT
AM32F-6036-32RU	32" T x 60" W x 36" D	32RU Total Equipment Space, 16RU Each Bay	2 / 4	TBD
AM32F-6042-32RU	32" T x 60" W x 42" D	32RU Total Equipment Space, 16RU Each Bay	2 / 4	TBD
AM47F-6036-48RU	47" T x 60" W x 36" D	48RU Total Equipment Space, 24RU Each Bay	2 / 4	TBD
AM47F-6042-48RU	47" T x 60" W x 42" D	48RU Total Equipment Space, 24RU Each Bay	2 / 4	TBD
AM58F-6036-60RU	58" T x 60" W x 36" D	60RU Total Equipment Space, 30RU Each Bay	2 / 4	TBD
AM58F-6042-60RU	58" T x 60" W x 42" D	60RU Total Equipment Space, 30RU Each Bay	2 / 4	TBD
AM68F-6036-72RU	68" T x 60" W x 36" D	72RU Total Equipment Space, 36RU Each Bay	2 / 4	TBD
AM68F-6042-72RU	68" T x 60" W x 42" D	72RU Total Equipment Space, 36RU Each Bay	2 / 4	TBD
AM78F-6036-84RU	78" T x 60" W x 36" D	84RU Total Equipment Space, 42RU Each Bay	2 / 4	TBD
AM78F-6042-84RU	78" T x 60" W x 42" D	84RU Total Equipment Space, 42RU Each Bay	2 / 4	TBD
AM32F-9036-48RU	32" T x 90" W x 36" D	48RU Total Equipment Space, 16RU Each Bay	3 / 6	TBD
AM32F-9042-48RU	32" T x 90" W x 42" D	48RU Total Equipment Space, 16RU Each Bay	3 / 6	TBD
AM47F-9036-72RU	47" T x 90" W x 36" D	72RU Total Equipment Space, 24RU Each Bay	3 / 6	TBD
AM47F-9042-72RU	47" T x 90" W x 42" D	72RU Total Equipment Space, 24RU Each Bay	3 / 6	TBD
AM58F-9036-90RU	58" T x 90" W x 36" D	90RU Total Equipment Space, 30RU Each Bay	3 / 6	TBD
AM58F-9042-90RU	58" T x 90" W x 42" D	90RU Total Equipment Space, 30RU Each Bay	3 / 6	TBD
AM68F-9036-108RU	68" T x 90" W x 36" D	108RU Total Equipment Space, 36RU Each Bay	3 / 6	TBD
AM68F-9042-108RU	68" T x 90" W x 42" D	108RU Total Equipment Space, 36RU Each Bay	3 / 6	TBD
AM78F-9036-126RU	78" T x 90" W x 36" D	126RU Total Equipment Space, 42RU Each Bay	3 / 6	TBD
AM78F-9042-126RU	78" T x 90" W x 42" D	126RU Total Equipment Space, 42RU Each Bay	3 / 6	TBD

FEATURE	DESCRIPTION	MATERIALS, FINISH & STANDARDS
Cabinet Construction	Cabinet walls, top, bottom, doors & door frames are of welded aluminum construction.	Constructed out of .125" +/- .190" thick 5052-H-32 Aluminum. All surfaces powder coated light textured beige, outdoor rated TGIC. Designed and built to NEMA 4X Standards.
Interior Rack	Rack rails are designed to accept 12-24 floating cage nuts. 12-24 screws, washers and cage nuts included with the cabinet. Racks are adjustable front to back, rails are reversible from 19" to 23" configurations. One rack per equipment bay is included, extra rack rails can be included to facilitate four post mounted equipment or added capacity with front & rear mounted equipment.	Rack rails are constructed out of 12 gauge galvanized steel and powder coated matte black and labeled with RU designations. Rails designed to EIA standards, cable pass-thru openings are included when rack is in 19" configuration.
Door Handle/Latch	3-point pad lockable door latch & handle on all doors.	All cabinet fasteners, handles & latching mechanisms are stainless steel.
Door Gasket Seal	Flat self-adhesive gasket is attached to door interior for a gasket seal that is compliant to NEMA Type 4 standards.	Gasket material is UL 94 rated for gasketing & sealing applications under UL50 and UL508.
Door Hinge	Stainless steel continuous door hinge on front and rear doors.	Full length 16 ga. (.060" thick) stainless steel piano hinge.
Cable Entrances	Sealed gland plates for cable entry.	Painted aluminum gland plates secured w/ stainless fasteners & sealing gasket.
Grounding Provisions	10 position isolated ground bar w/ external ground provisions.	6AWG braided cable door grounding strap secured to masked studs for each cabinet door. 10 position copper terminal strip mounted to interior bottom, mounted to stand-offs for easy access.
Door Stops	Integrated door wind guard stop on each door.	Custom door wind guards constructed out of 304 stainless steel. Holds door open at approximately 95°, lift to close.
Convenience Receptacle	Quad 20 amp receptacle positioned in rear lower section of each equipment bay.	(2) duplex 20 amp 5-20R receptacles mounted in 4" junction boxes in each equipment bay. Wiring done by others in the field. Note: If outdoor load center option is included, receptacles will be wired to a breaker in the load center.
Sun Shield	Top sun shield covering the top of each equipment bay to reduce the affect of solar loading.	Constructed out of .125" thick 5052-H-32 Aluminum. All surfaces powder coated light textured beige, outdoor rated TGIC. Sun shield attached to cabinet top on standoffs to leave sufficient gap to facilitate air movement. Openings small enough to comply with insect intrusion restrictions per UL 50E guidelines.
Lifting Eyes	Custom lifting eyes on top (4) corners of cabinet. Note: For recommended lifting procedures, please refer to instruction manual.	Material for lifting eyes are heavy gauge aluminum. Each lifting eye is attached with high strength carriage bolts. Lifting eyes can be removed after cabinet is in place if desired.
Mounting Plinth (optional)	4" or 6" tall mounting plinth with front & rear access panels for slack storage.	Plinth is constructed out of .125 thick 5052-H32 aluminum. All surfaces powder coated light textured beige, outdoor rated TGIC. Front & rear access panels are secured with 216 hex head security screws. Hex key provided with this option.

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