



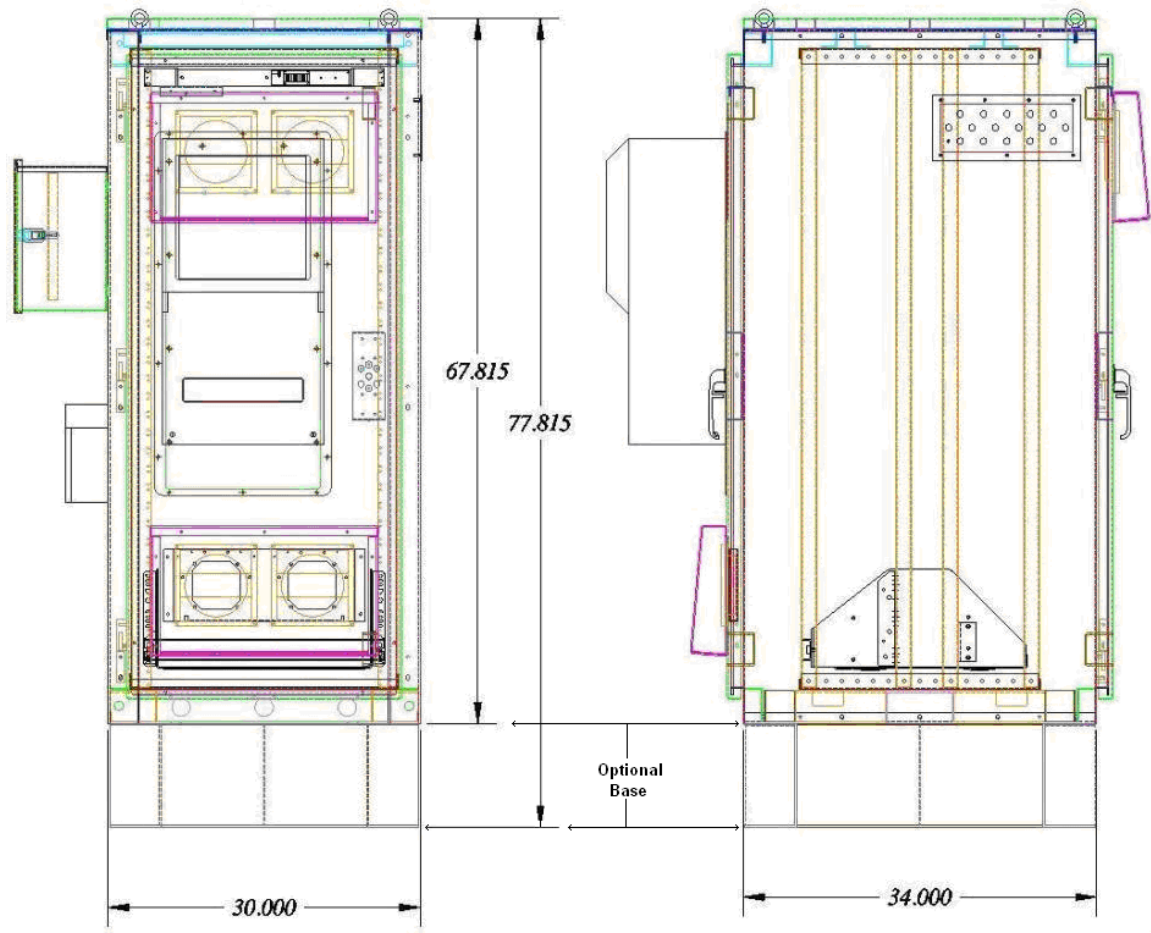
# Outdoor Enclosure Power System ENC673034-1X100MP48F20-AC6



**Part# A015151A2**

**Manual MA015151A2 Issue 1  
Oct 2010  
Copyright 2010 Myers Power Products, Inc.**

## Dimensions



**Outdoor Enclosure Power System ENC673034-1X100MP48F20-AC6**  
is designed to meet NEMA N3R.

**Cabinet Weight: 475 Lbs ( without batteries )**

23 inch racks, 4 pair, horizontally adjustable ( forward and backward )

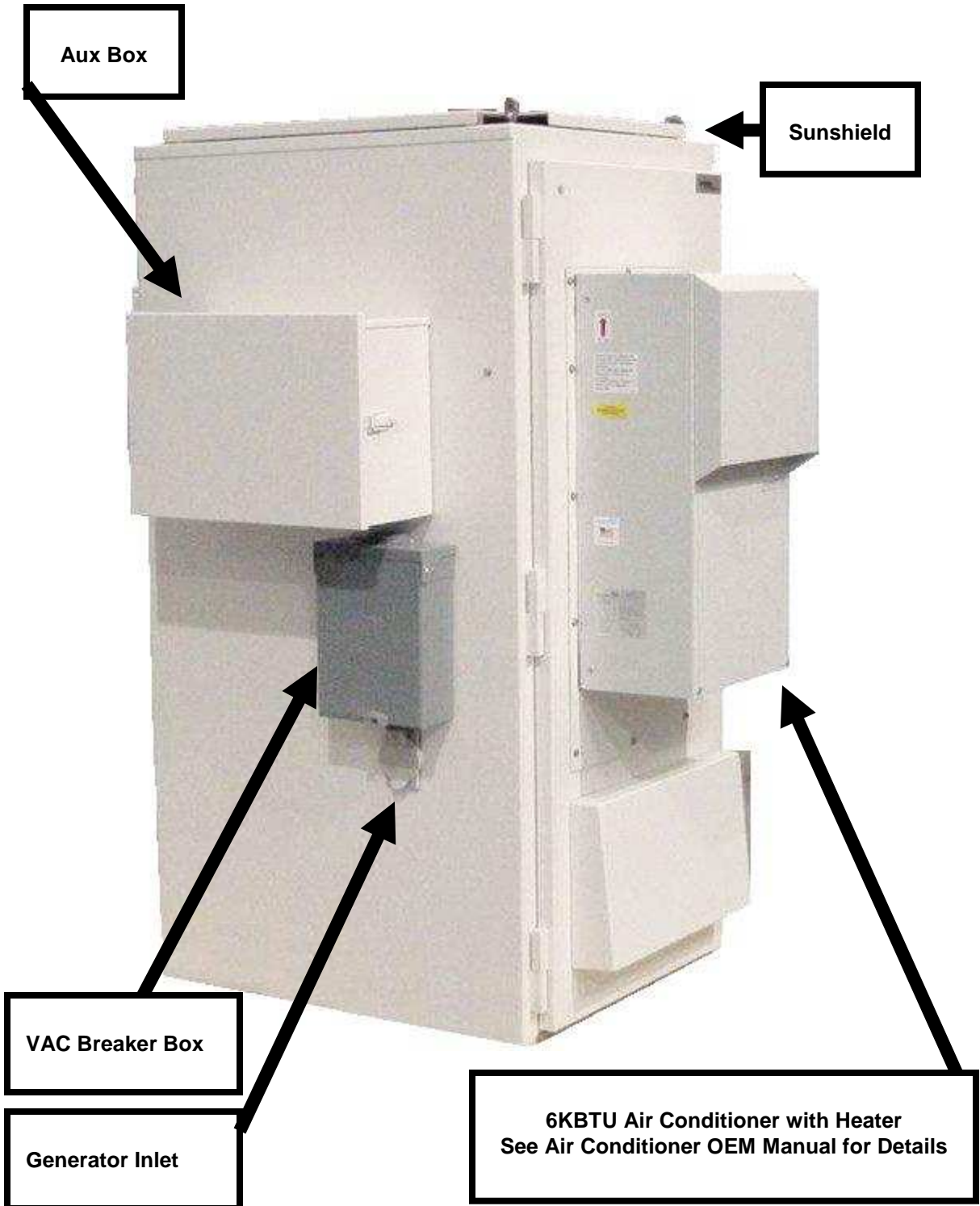
Rear vertical rack rails can be configured for 19 or 23 inch.

Contiguous 20U available space, 33U total rack space

12-24 thread rack mounting holes – use a tri-lobe screw to cut the paint

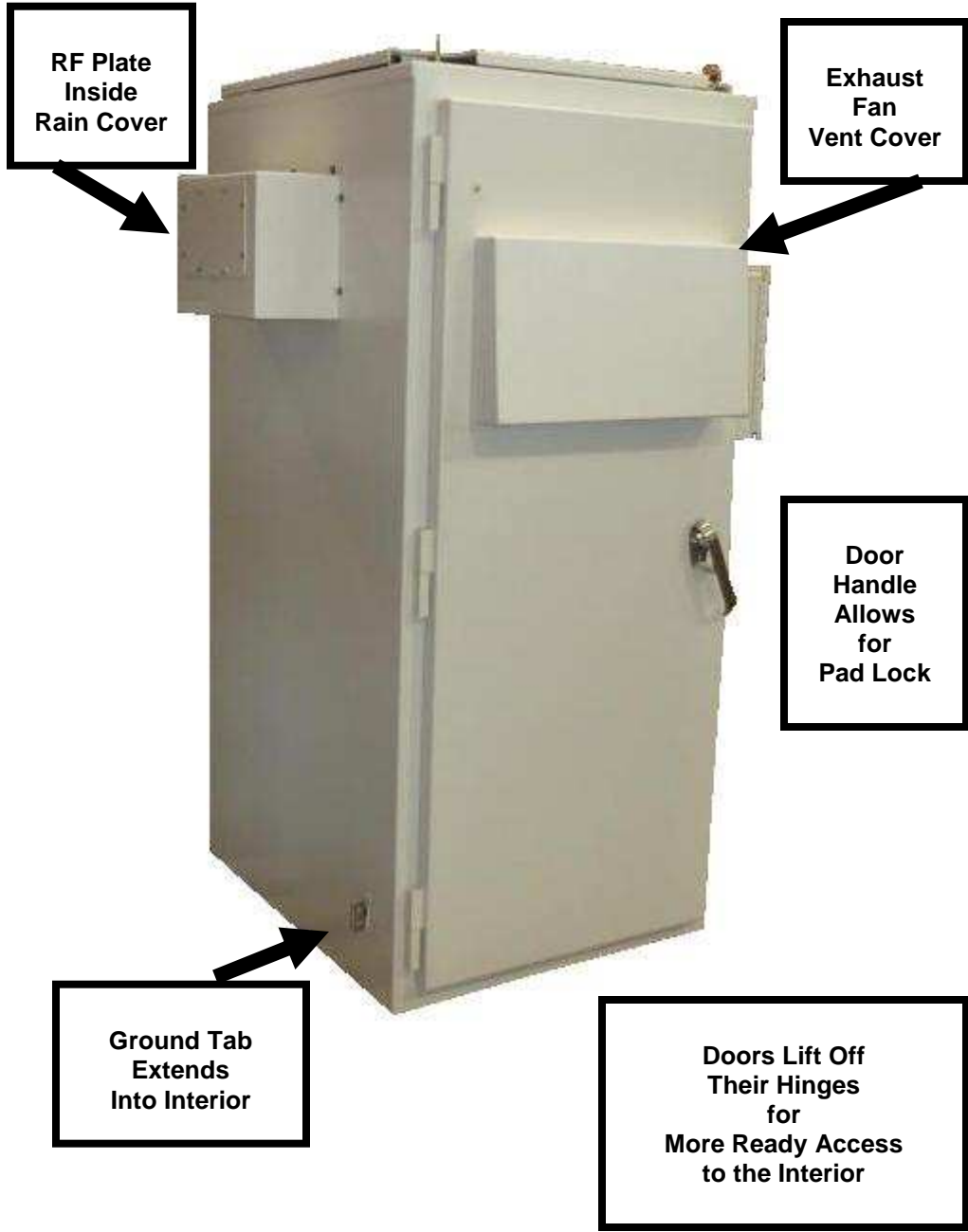
**Exterior**

**Overview**



# Exterior

## Overview



## Exterior

### Sunshield and Eye Bolts

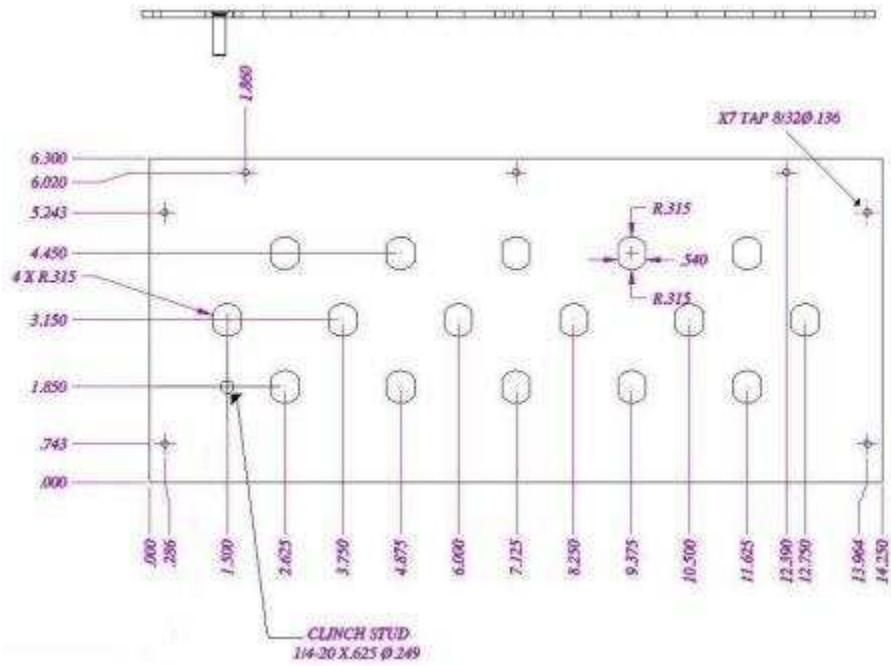
**Sunshield Provides Additional Protection Against  
High Outdoor Ambient**

**Eye-Bolts for Hoisting the Cabinet  
Remove Batteries Before Hoisting  
( Part# A015151A2 Does Not Include Batteries )**

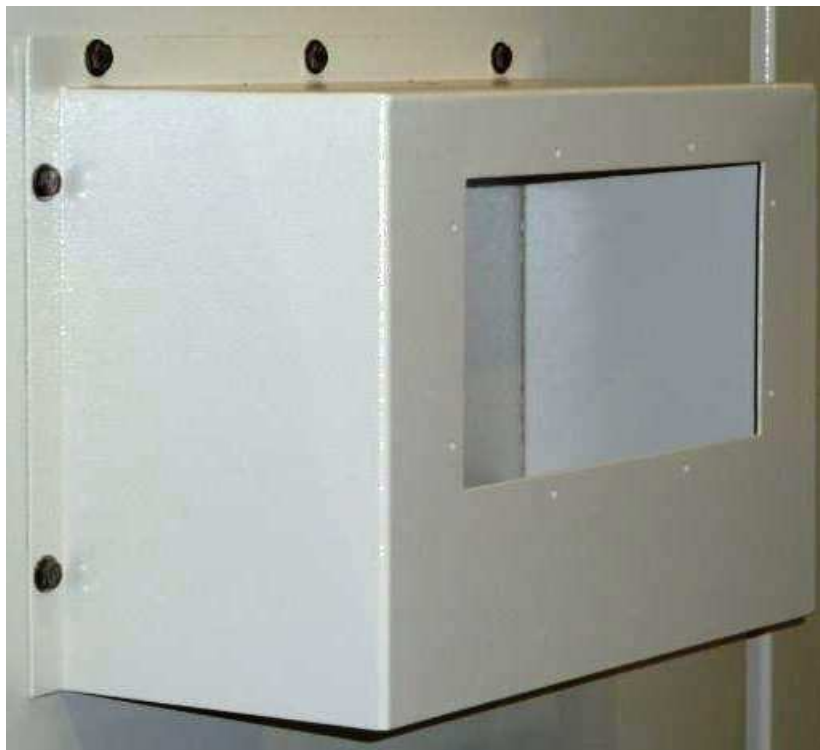


# Exterior

## RF Plate and Rain Cover

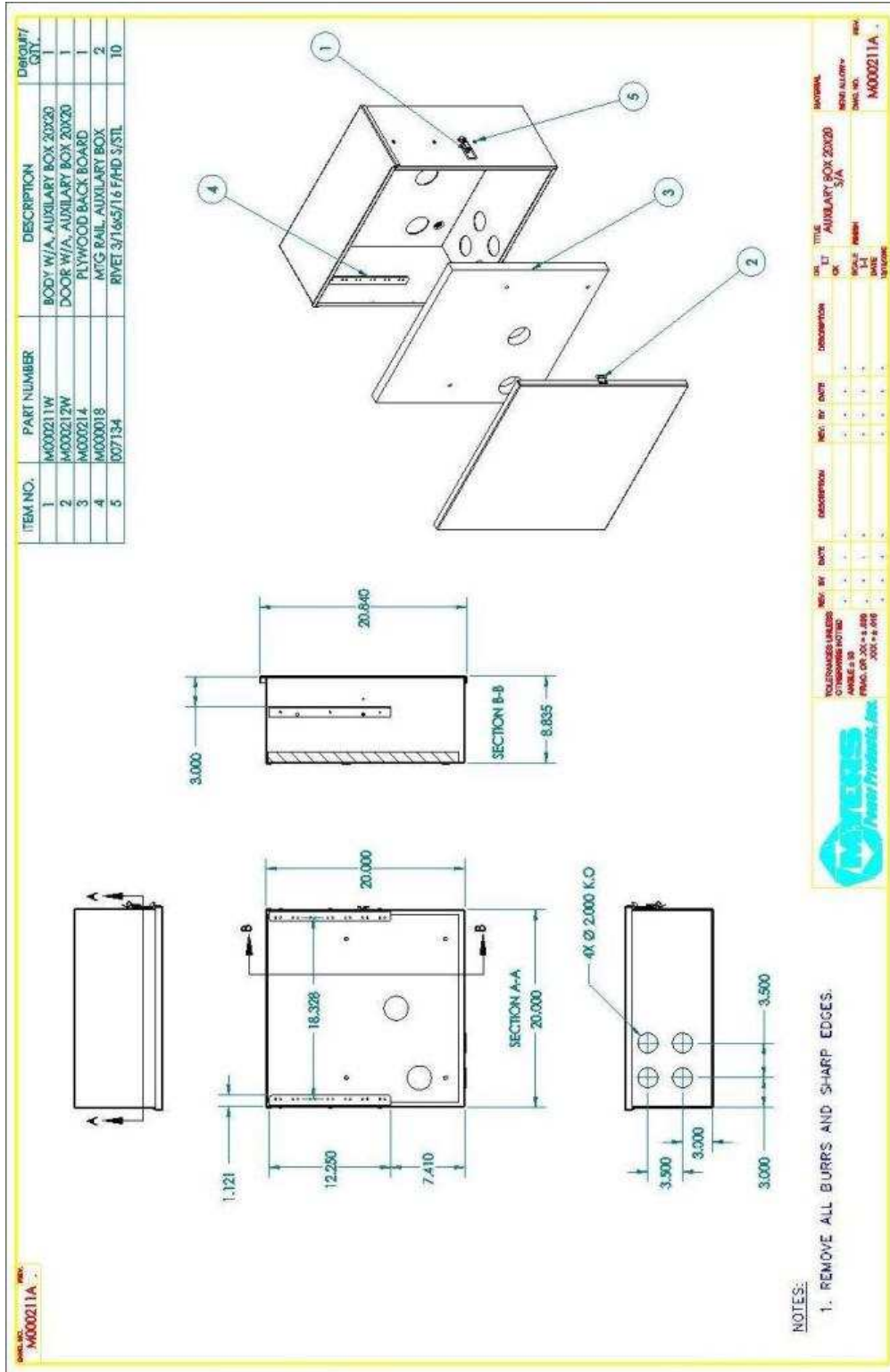


**16 Access Hole RF Plate  
Inside Rain Cover**



# Exterior

## Aux Box



## Exterior

### Generator Inlet



**Commercial VAC Power and Generator VAC Power**

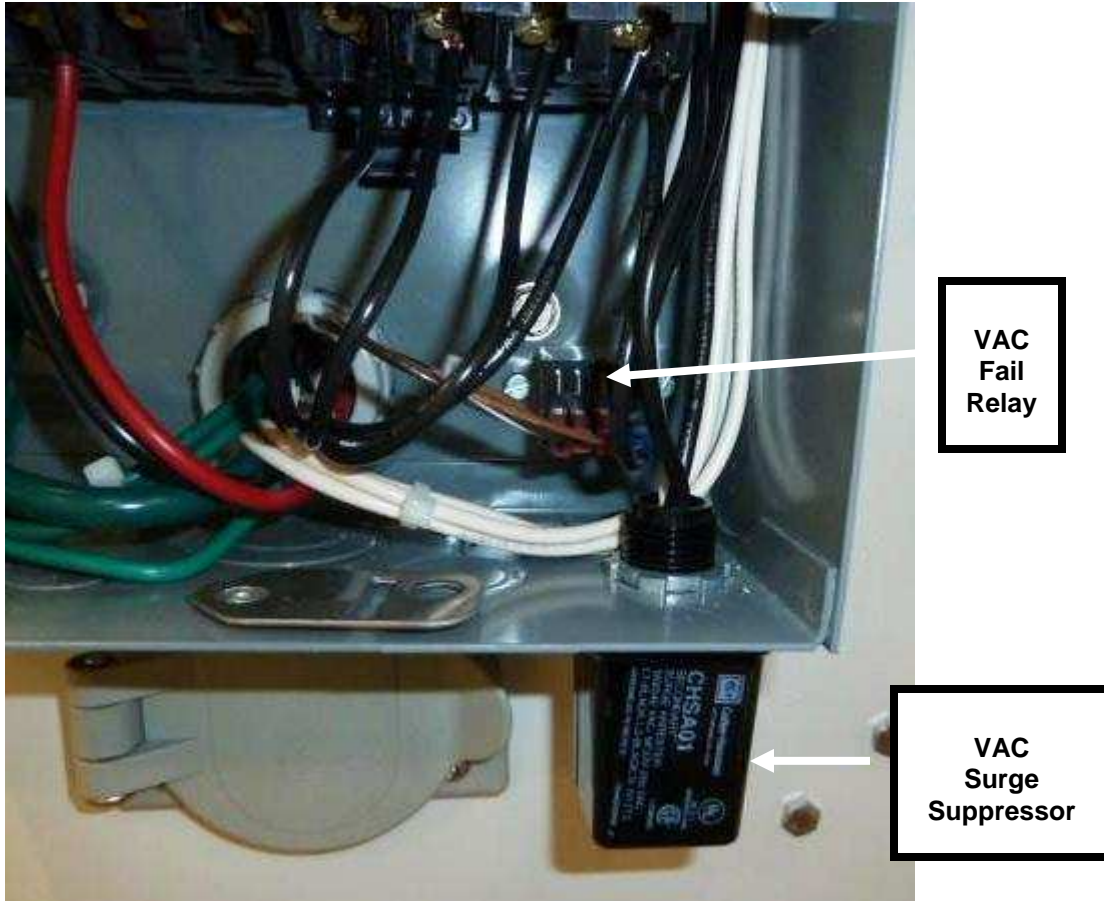
### NEMA L14-30 Generator Plug





## Exterior

### VAC Breaker Box



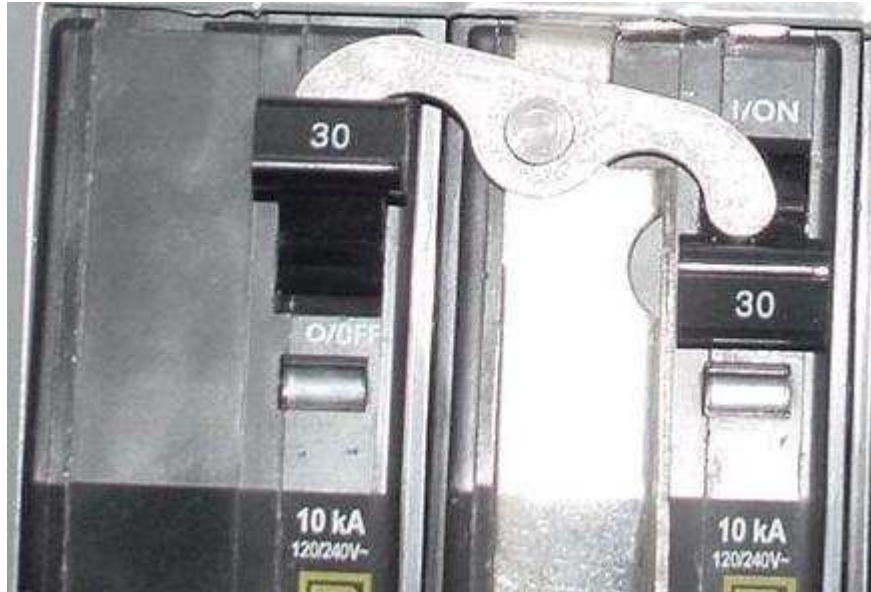
VAC Fail Relay is Energized from the 208/220/240 VAC Input to the Breaker Box  
The relay provides an isolated 1-Form C contact closure take-off on TB1.  
Normally Closed is the de-energized position.

See the TB1 pin-out information in this manual.

## Exterior

### VAC Breaker Box

#### Toggled Main Breakers Prevent Simultaneous Commercial and Generator VAC Power Input



#### Use 120 / 240 VAC 30 Amp Service

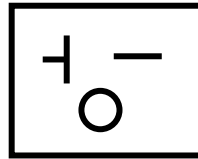
<u>Breaker Position</u>	<u>Breaker Type</u>	<u>Description</u>
1 & 2	2-Pole 30 amp	Primary Input Commercial VAC Power
3 & 4	2-Pole 30 amp	Generator Input from L14-30 Inlet Plug
5	1-Pole 20 amp	5-20R Duplex Receptacle Air Conditioner VAC Power Back Interior Light
6	1-Pole	5-20R GFCI Duplex Receptacle Convenience Receptacle Front Interior Light
7 & 8	2-Pole 20 amp	6-20R Duplex Receptacle Rectifier Shelf VAC Power

# Interior / Exterior

## Duplex Receptacles

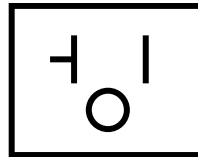


**6-20R Duplex Receptacle**  
**Rectifier Shelf VAC Power**



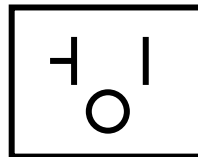
208 / 220 / 240 VAC

**5-20R Duplex Receptacle**  
**Air Conditioner VAC Power**  
**Back Interior Light**



120 VAC

**5-20R GFCI Duplex Receptacle**  
**Convenience Receptacle**  
**Front Interior Light**



120 VAC

## Interior / Exterior

### Rear Door / Door Handle / Dual Thermostat



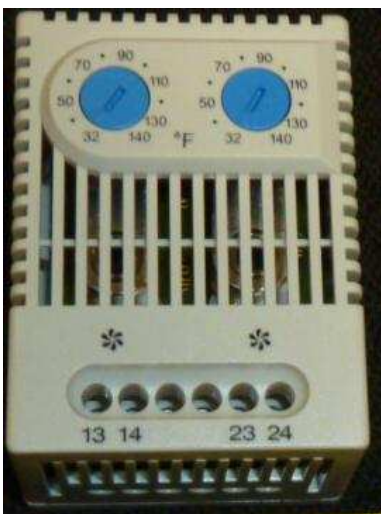
Door  
Wind Catch

Laptop  
Tray



Door Handle  
Allows for  
Padlock

**Dual Exhaust Fans Powered  
by the 48VDC Power System  
Fused on the GMT Fuse Panel Position 1 ( 1 amp GMT fuse )**



**Dual Thermostat  
13 & 14 Side Controls Exhaust Fans  
( Set to 120 F )**

**23 & 24 Side High Temperature Ambient  
Alarm ( Set to 120F ) Routed to the  
PSC500H J5.13 & .14 User Defined Input  
IN3.**

**Both 13/14 & 23/24 Contact Closures  
are Routed Via TB1**

**See the PSC500H Manual for more details  
of the power system controller.**

## Interior / Exterior

### Dual T-Stat Location and Air Intake Vents



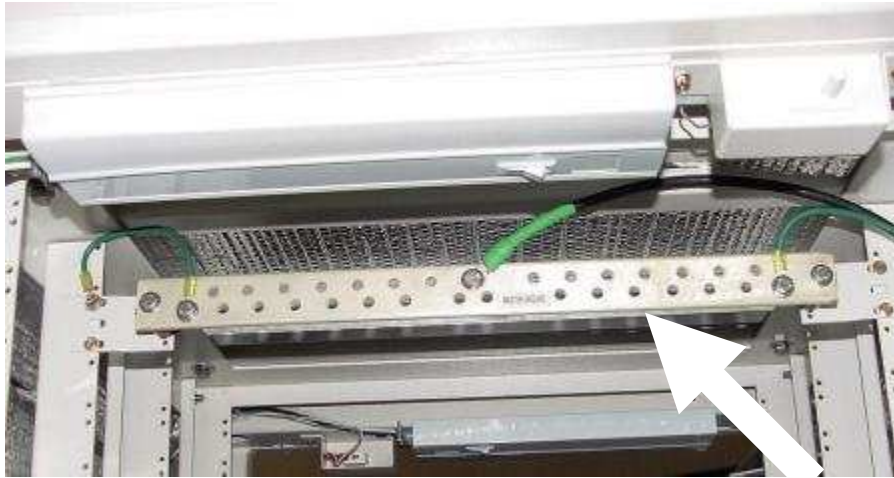
Dual T-Stat ( Exhaust Fan and Interior High Ambient Alarm ) Located Near  
the Air Conditioner Cool Air Outlet

During high outdoor ambient,  
hot air entering the cabinet while the door(s) are open  
will turn on the exhaust fans.  
After closing the door(s),  
cool air on the t-stat shuts off the exhaust fans.  
Any other location can result in the exhaust fans  
continually  
drawing out the air conditioned air  
until  
the outdoor ambient cools enough to shut off the exhaust fans.

Louvered Air Intake Vents Open for Exhaust Fan Operation

## Interior

### Master Ground Bus and Rectifier Shelf



**Master Ground Bus**

### Power One Aspiro Rectifier Shelf



**The Leftmost Slot is Reserved and not Used**

**DC Positive is tied to Chassis Ground  
within the Power System  
for a Negative 48VDC System.**

**See the Power One Aspiro manual for more information  
on the rectifier shelf  
and the Aspiro rectifiers.**

**Note that A015151A2 does not include the rectifier modules.  
The modules are ordered separately  
to choose between  
400 watt or 800 watt Aspiro rectifier modules.**

## Interior

### GMT Fuse Panel



**The 20 Position GMT Fuse Panel  
Provides DC Power Distribution**

**GMT Fuse Position 1 is Used to Provide  
Over-Current Protection to the Dual Exhaust Fans  
( 1 amp GMT Fuse )**

**The GMT Fuse Panel Blown Fuse Alarm  
( along with the Battery Breaker Aux Switch )  
is Routed to  
the PSC500 J3.5.6 Distribution Alarm Input  
( via TB1 )**

**See the GMT Fuse Panel Manual MA011391  
for Details of the GMT Fuse Panel**

**See the PSC500 Manual MA014882  
for Details of the Power System Controller**

## Interior

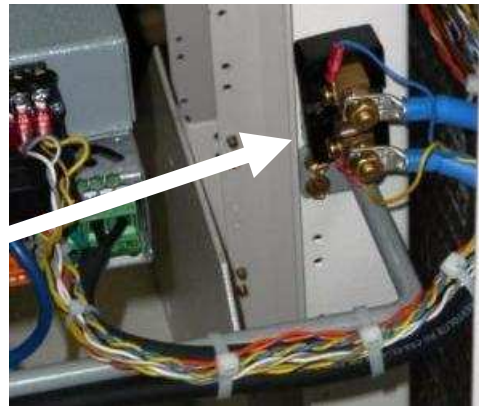
### Power System Controller / Battery Temperature Probe / Current Shunt



**PSC500H Power System Controller**

**See the PSC500H Manual MA014882 for Details  
of the Power System Controller**

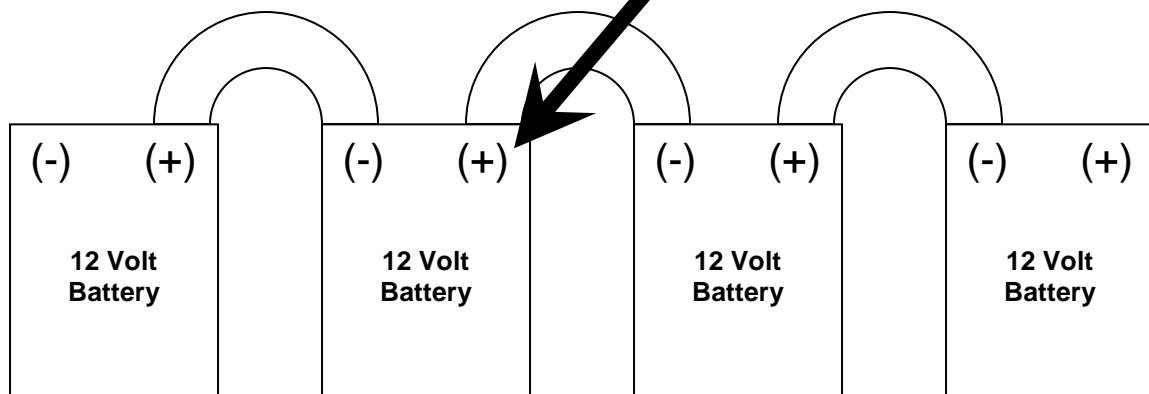
Rectifier Current Shunt Setting  
is  
100 Amps  
in  
PSC500 Power Control screen  
  
( Leave Battery Shunt at  
Zero Amps )



### BATTERY TEMPERATURE PROBE & MID-POINT CONNECTION

PSC500H J5 pos 3 ( Mid-Point )  
and  
J4 pos 3 & 4 ( Temperature Sensor )

PROBE  
PLACEMENT  
MID VOLTAGE





## Interior

### Terminal Block TB1



**TB1, 12 Position, Dual Row, #6 Screw Terminals  
Signal Wire Interface and Take-Off**

**TB1.1 & .2 Door Switch Contact Closure ( Front & Rear Door )**

**TB1.3 & .4 Interior High Temperature Ambient Contact Closure  
( Dual T-Stat .23 & .24 )**

**TB1.5 & .6 Exhaust Fan Dual T-Stat .13 & .14 Contact Closure**

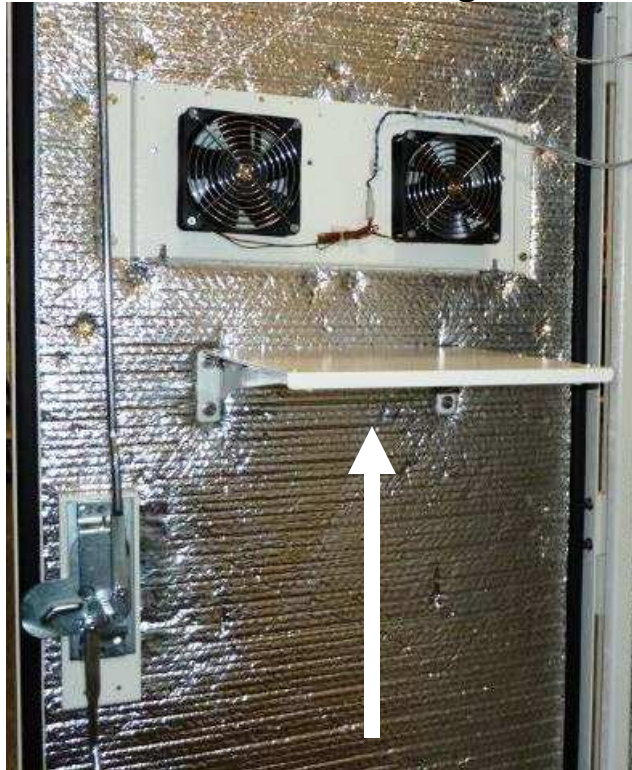
**TB1.7 & .8 Distribution Alarm Contact Closure  
( GMT Fuse Panel Alarm and Battery Breaker Alarm )**

<b>TB1.9</b>	<b>Normally Open</b>	<b>VAC Fail Relay Contact Closure</b>
<b>TB1.10</b>	<b>Common</b>	<b>from the</b>
<b>TB1.11</b>	<b>Normally Closed</b>	<b>VAC Fail Relay Mounted in the</b>
		<b>VAC Breaker Box</b>

**TB1.12 Spare**

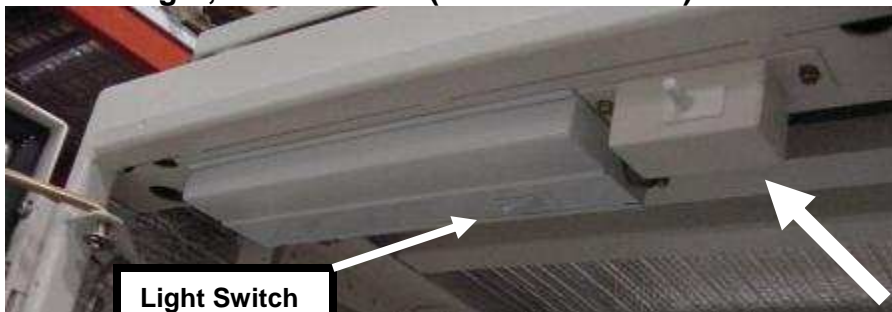
## Interior

### Laptop Tray / Door Switches / Interior Lights



Laptop Tray Mounted on Rear Door Interior ( Fold Down Tray )

### Interior Light, Front & Rear ( 120VAC Power )

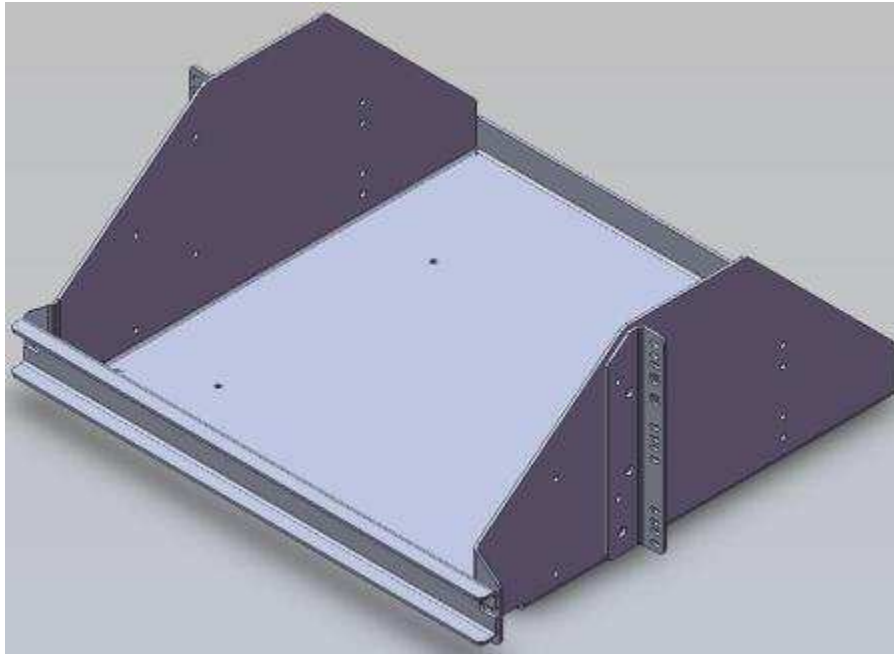


and Door Switch ( Intrusion Alarm )

The door switch contact closure is routed ( via TB1 ) to the PSC500H J5.11 & .12 User Defined Input IN2. See the PSC500 Manual for more details of the PSC500H power system controller. A door switch and light is installed at both the front and back doors.

## Interior

### Battery Tray



**Battery Tray Designed for Front Terminal Batteries  
Can Also Hold Top Terminal Batteries**

**Battery Tray Interior  
20.625"W x 18.5"D**



**A015151A2 Ships From the Factory with No Batteries Installed**

## **Interior**

### **Battery Breaker**



#### **Battery Breaker 60 Amp with Finger Guard**

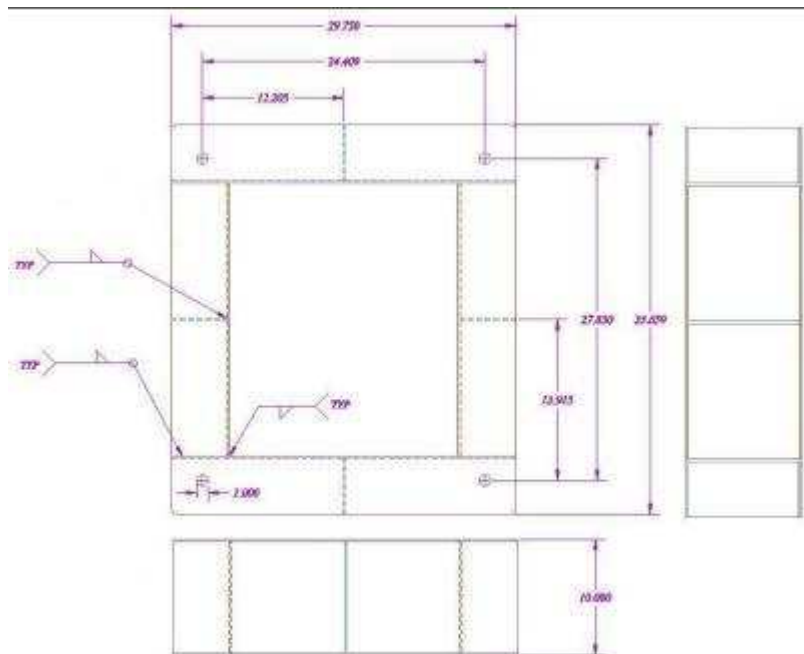
**The Battery Breaker Aux Switch  
( along with GMT Fuse Panel Blown Fuse Alarm)  
is Routed to  
the PSC500 J3.5.6 Distribution Alarm Input  
( via TB1 )**

**See the PSC500 Manual for Details  
of the Power System Controller**



# Optional Cabinet Base

Part# M000049W



## History MA015151A2

Original source document located at:

\\DATXNAS01\common2 on Datxnas01\ADSENG\MANUALS\A015151A2

Oct 2010 Issue 1 Originate MA015151A2 manual

derived from MA015151A manual

**Myers Power Products, Inc.**  
**( 909 ) 923-1800 PST**