



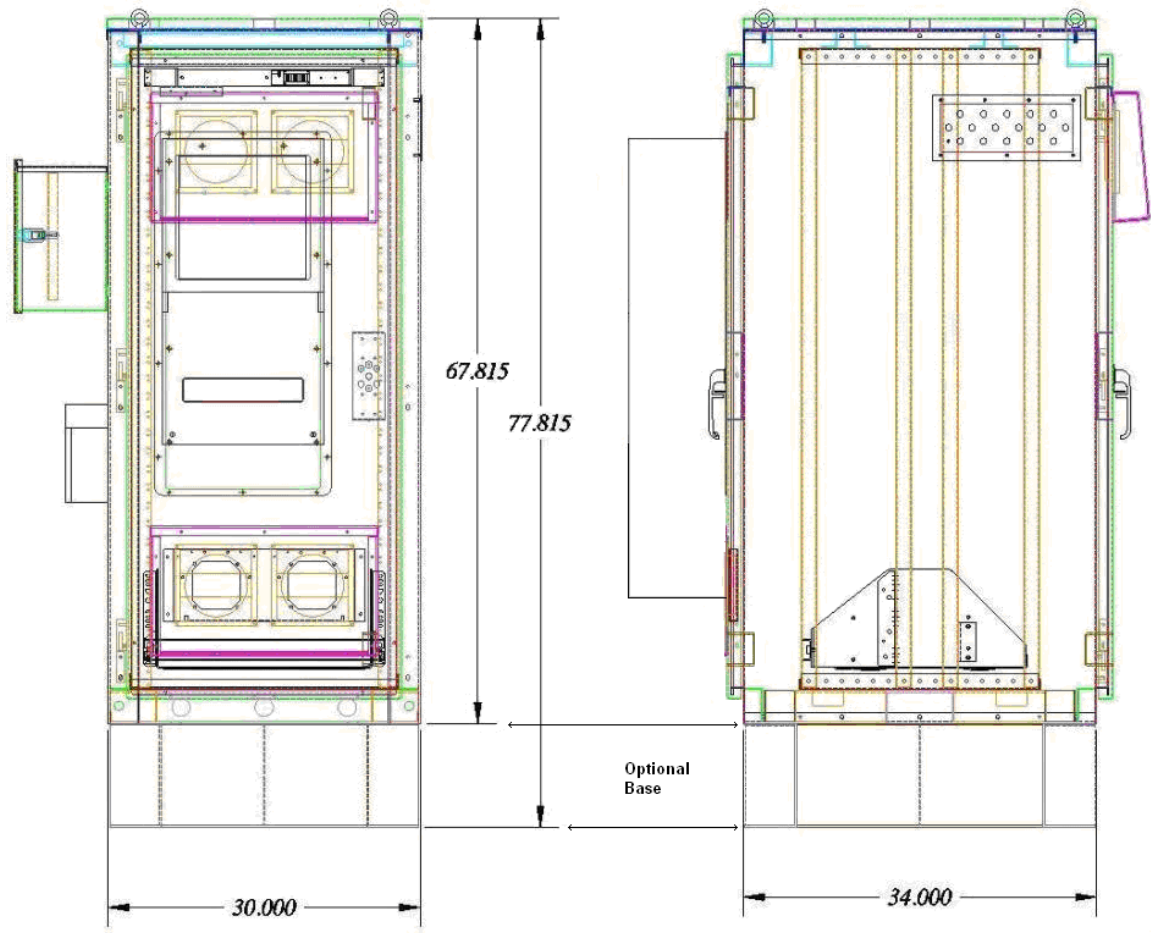
# Outdoor Enclosure Power System ENC673034-1X100MP48F20



**Part# A015152A1**

**Manual MA015152A1 Issue 1  
Oct 2010  
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## Dimensions



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

**Cabinet Weight: 455 Lbs ( without batteries )**

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

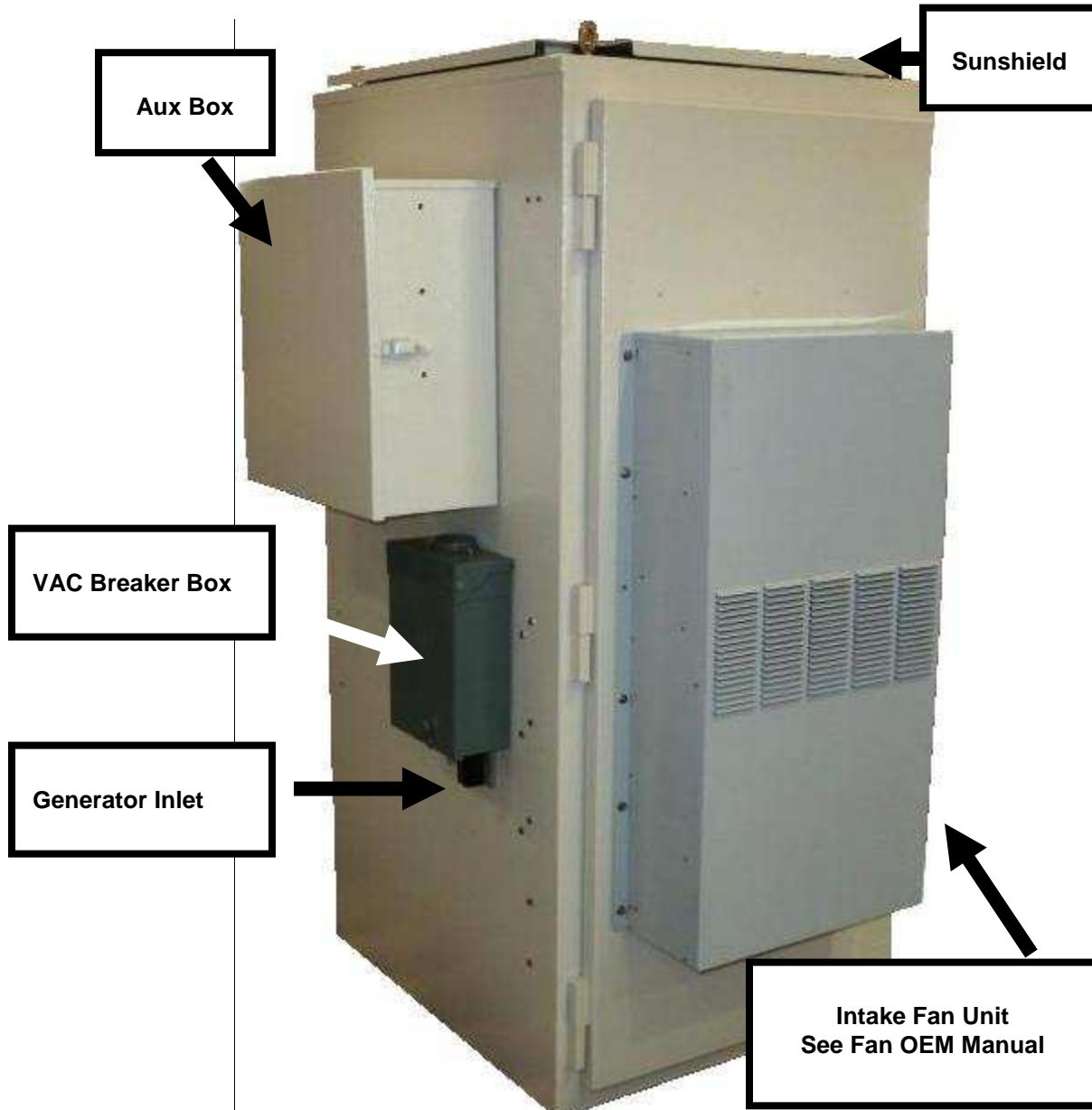
Rear vertical rack rails can be configured for 19 or 23 inch.

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



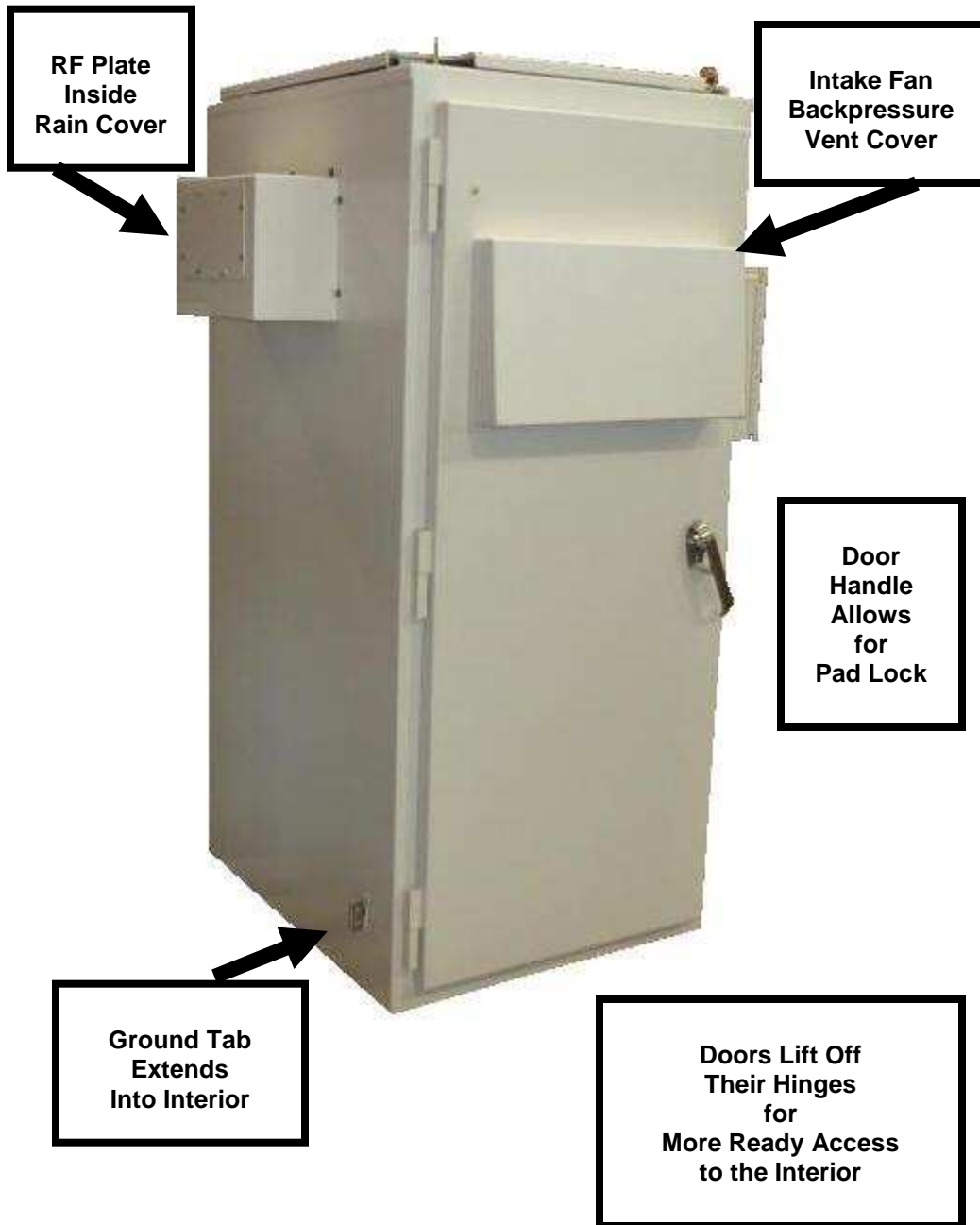
The intake fan is powered from the 48VDC power system within the cabinet. A low-voltage-disconnect ( LVD ) prevents the fan from overly discharging lead-acid batteries ( while running from batteries ). The LVD disconnects the fan at 42VDC and reconnects at 49VDC.

Note that the LVD only disconnects the fan, nothing else.

The t-stat within the fan interior is set to its coolest level so that the t-stat within the cabinet interior controls the fan ON / OFF.

# Exterior

## Overview



## Exterior

### Sunshield and Eye Bolts

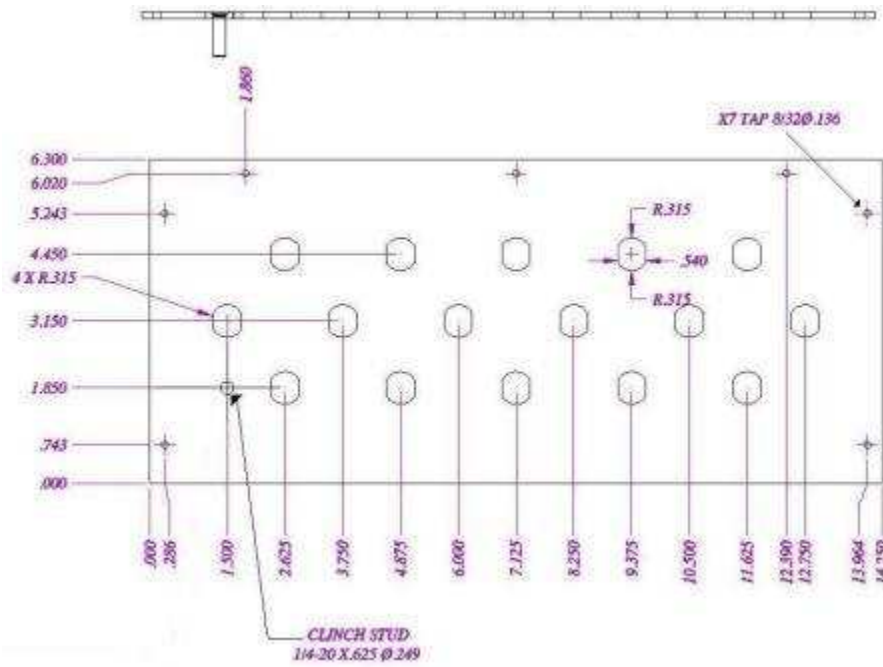
**Sunshield Provides Additional Protection Against  
High Outdoor Ambient**

**Eye-Bolts for Hoisting the Cabinet  
Remove Batteries Before Hoisting  
( Part# A015152A1 Does Not Include Batteries )**

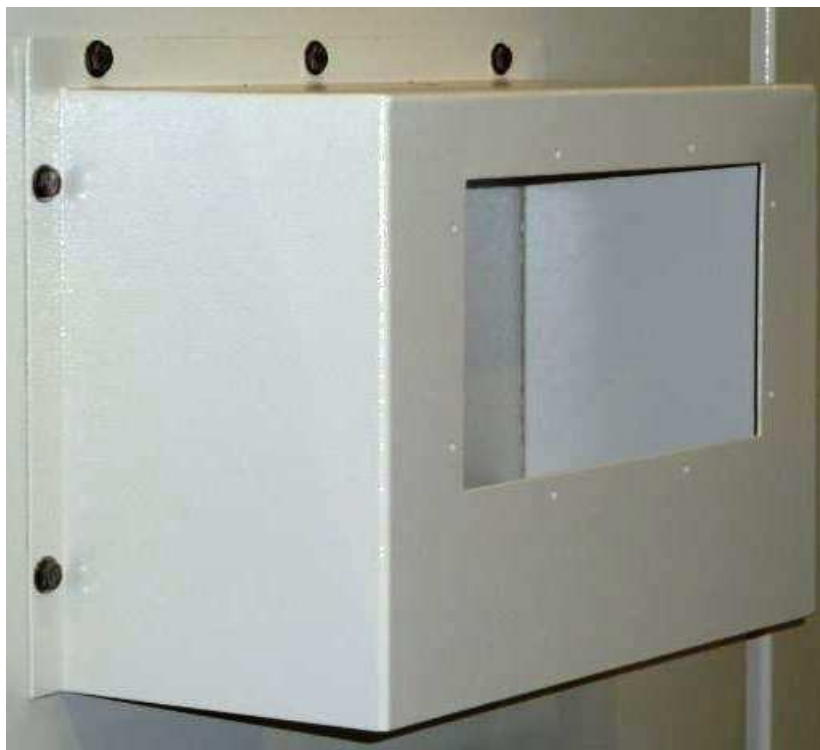


# Exterior

## RF Plate and Rain Cover

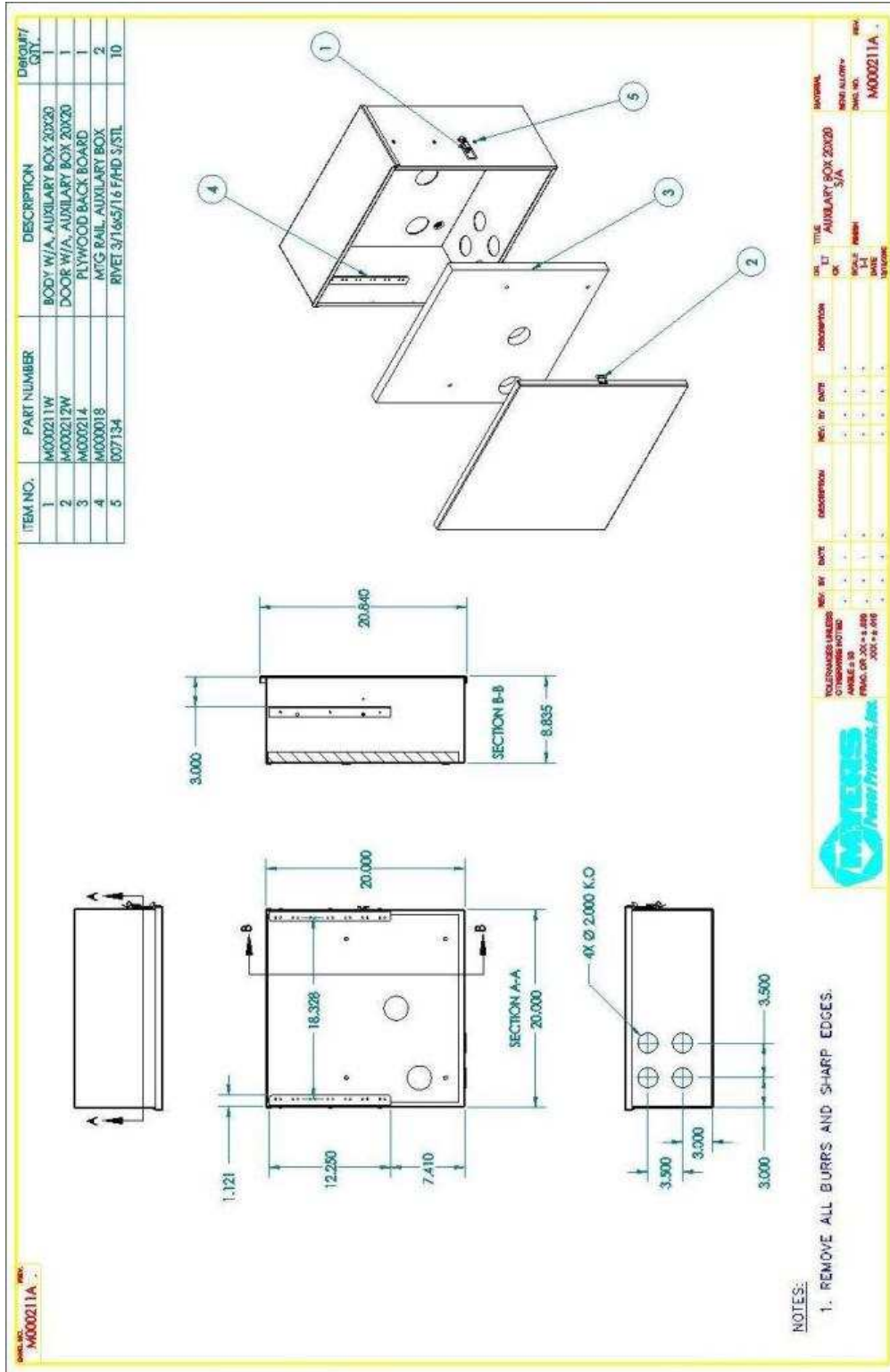


**16 Access Hole RF Plate  
Inside Rain Cover**



# Exterior

## Aux Box



## Exterior

### Generator Inlet



**Commercial VAC Power and Generator VAC Power**

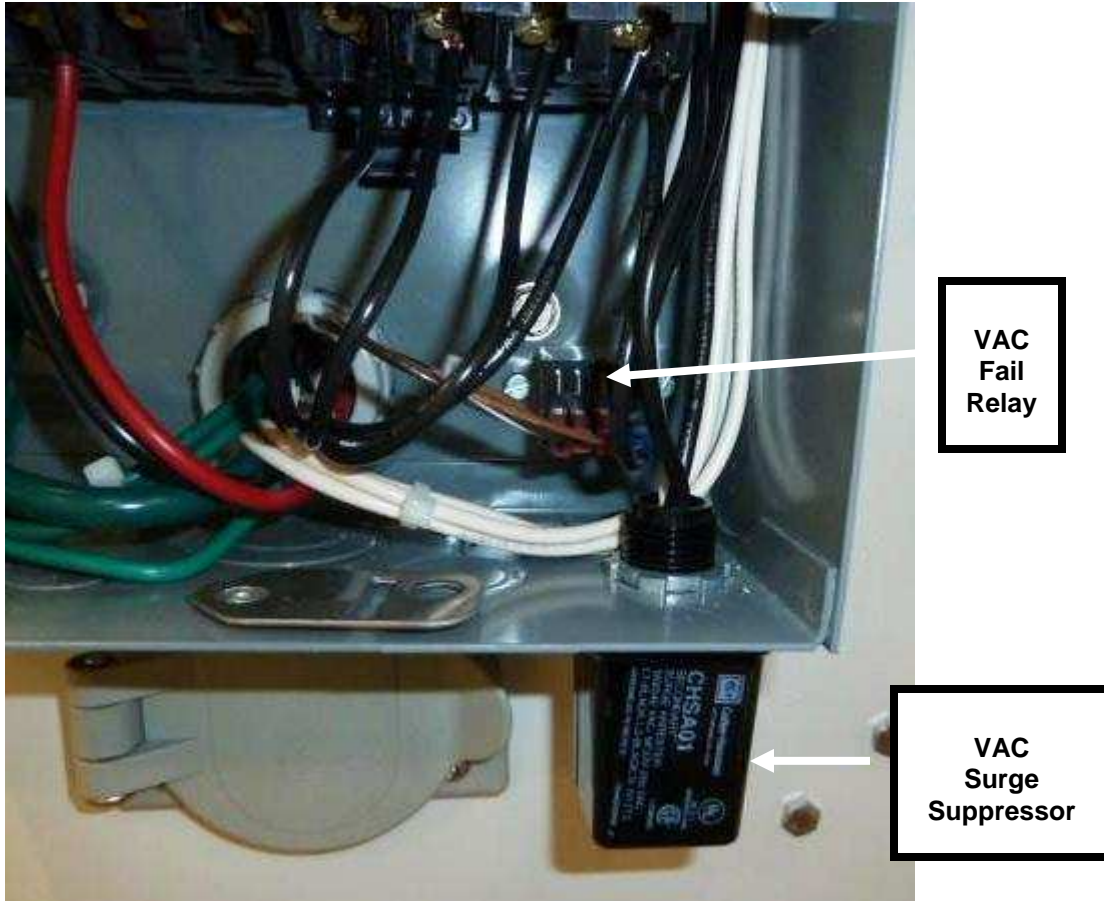
### NEMA L14-30 Generator Plug





## Exterior

### VAC Breaker Box



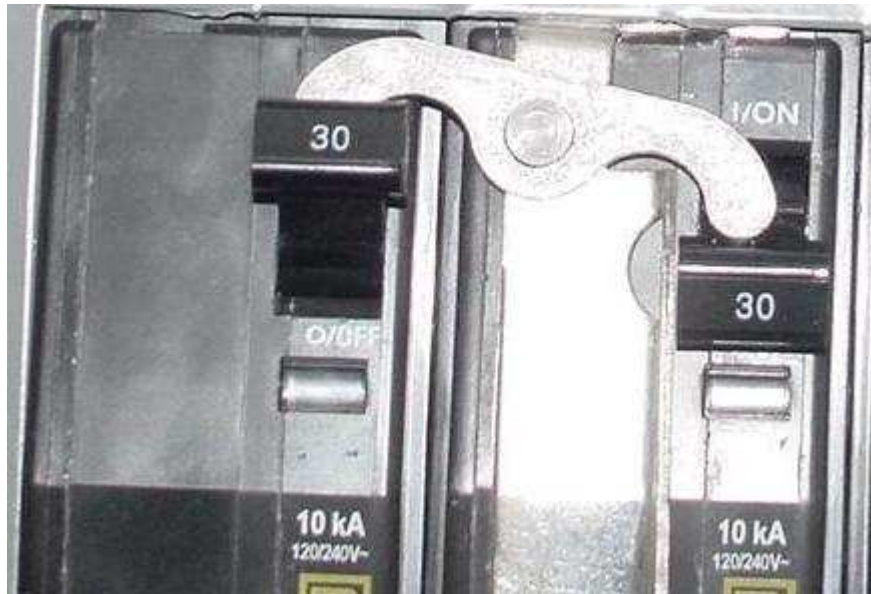
VAC Fail Relay is Energized from the 208/220/240 VAC Input  
to the Breaker Box  
The relay provides an isolated 1-Form C contact closure take-off on TB1.  
Normally Closed is the de-energized position.

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**

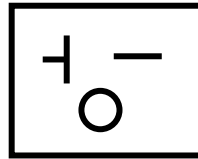
<b><u>Breaker Position</u></b>	<b><u>Breaker Type</u></b>	<b><u>Description</u></b>
<b>1 &amp; 2</b>	<b>2-Pole 30 amp</b>	<b>Primary Input Commercial VAC Power</b>
<b>3 &amp; 4</b>	<b>2-Pole 30 amp</b>	<b>Generator Input from L14-30 Inlet Plug</b>
<b>5</b>	<b>1-Pole 20 amp</b>	<b>5-20R Duplex Receptacle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

# Interior / Exterior

## Duplex Receptacles

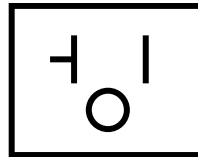


**6-20R Duplex Receptacle**  
**Rectifier Shelf VAC Power**



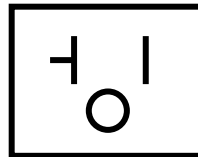
208 / 220 / 240 VAC

**5-20R Duplex Receptacle**  
**Front Interior Light**  
**Back Interior Light**



120 VAC

**5-20R GFCI Duplex Receptacle**  
**Convenience Receptacle**



120 VAC

## Interior / Exterior

### Rear Door Interior / Door Handle / Dual Thermostat



Door  
Wind Catch

Louvered  
Vents  
Relieve  
Intake Fan  
Back Pressure

Laptop  
Fold Out  
Tray



Door Handle  
Allows for  
Padlock



Dual Thermostat  
13 & 14 Side  
Controls Intake Fan  
( 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.

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

## 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 A015152A1 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**

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

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

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

## Interior

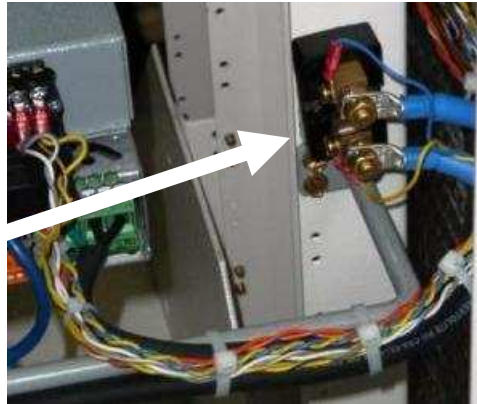
### Power System Controller / Battery Temperature Probe / Current Shunt



**PSC500H Power System Controller**

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

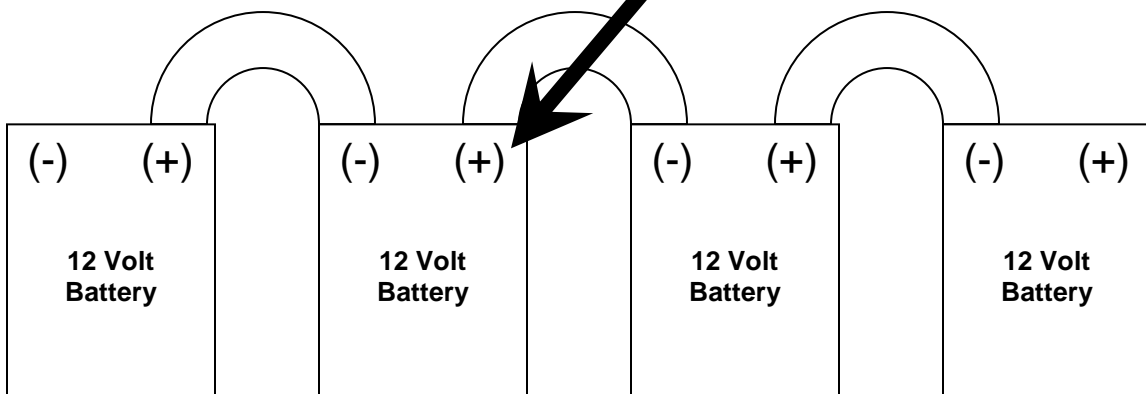
Rectifier Current Shunt Setting  
is  
100 Amps  
in  
PSC500 Power Control screen  
  
( Leave Battery Shunt at  
Zero Amps )



### 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 Intake 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

### Interior Lights and Door Switch

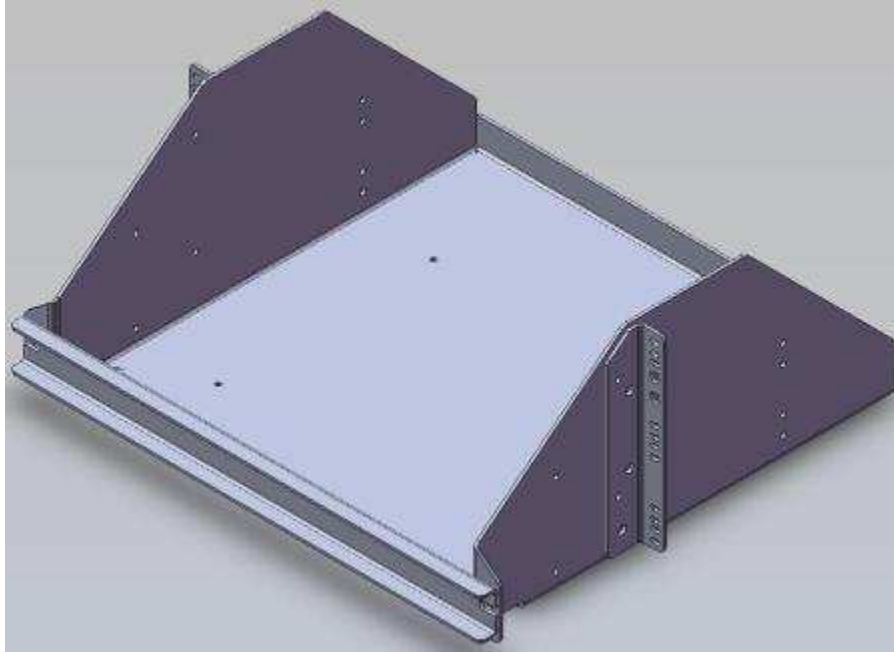
#### Interior Light Front & Rear ( 120VAC Power )



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**



**A015152A1 Ships From the Factory with No Batteries Installed**

## **Interior**

### **Battery Breaker**



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

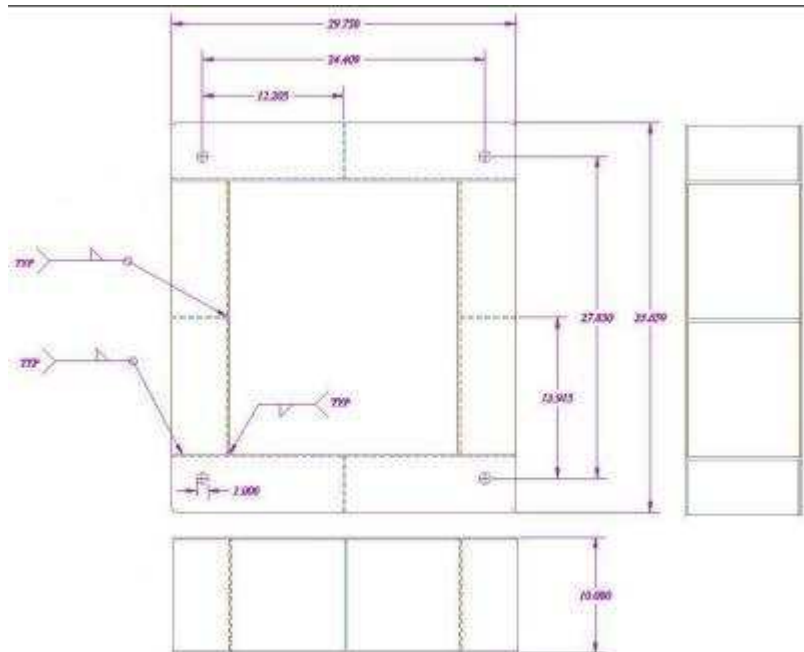
**The Battery Breaker Aux Switch  
( along with GMT Fuse Panel Blown Fuse Alarm )  
is Routed ( via TB1 ) to  
the PSC500 J3.5.6 Distribution Alarm Input**

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



# Optional Cabinet Base

Part# M000049W



## **History MA015152A1**

Original source document located at:

\\DATXNAS01\common2 on Datxnas01\ADSENG\MANUALS\A015152A1

Oct 2010 Issue 1 Originate MA015152A1 manual from MA015151A2 manual

**Myers Power Products, Inc.**  
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