



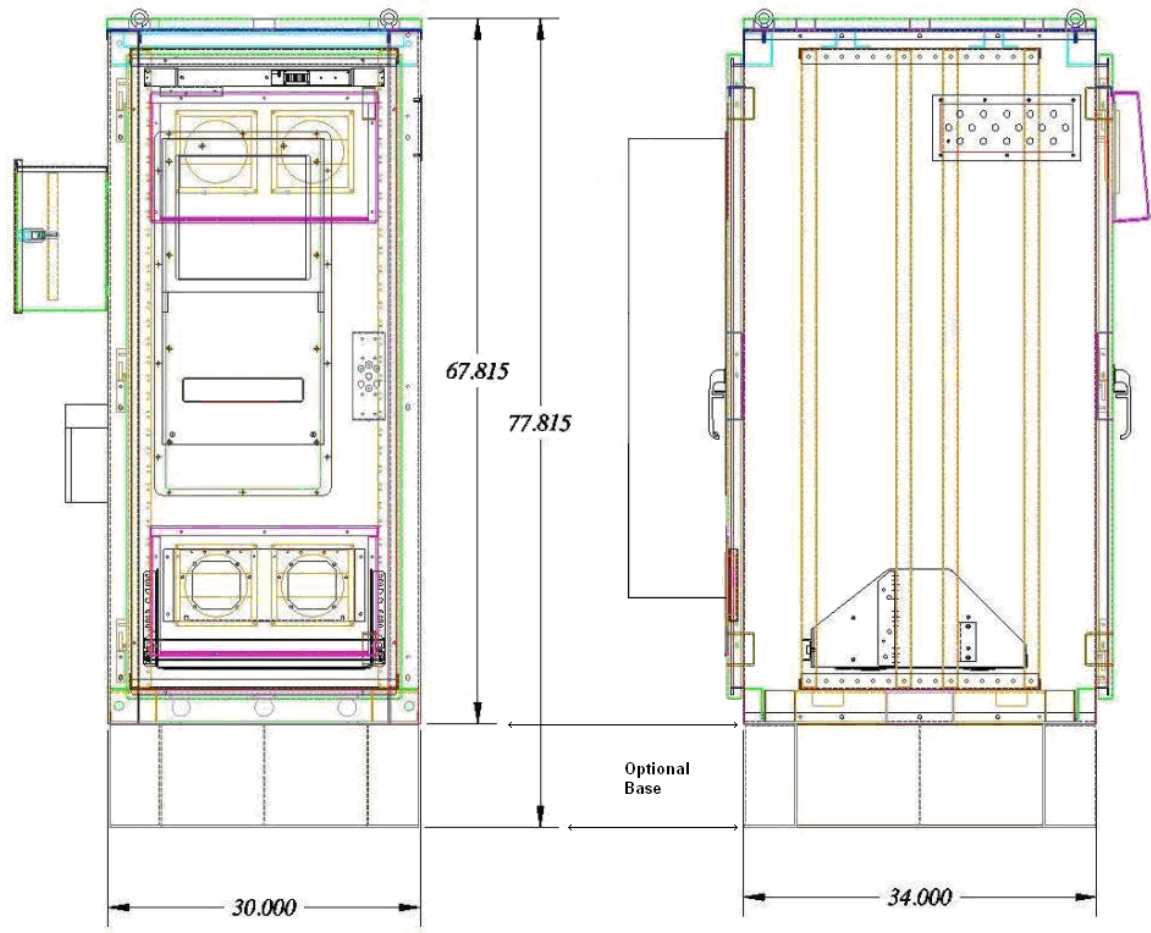
Outdoor Enclosure Power System ENC673034-1X100MP48F20



Part# A015152A4

**Manual MA015152A4 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)

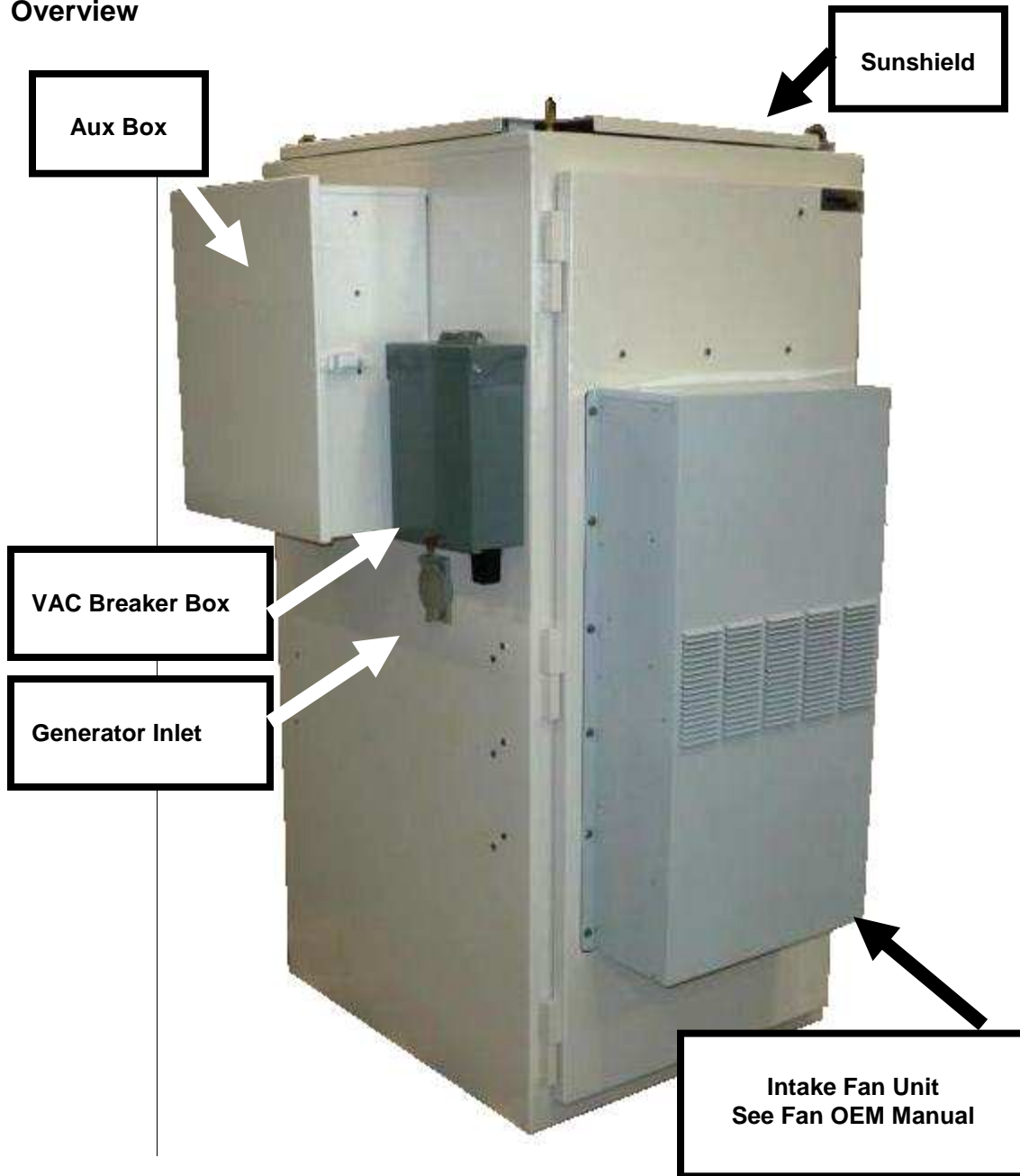
Rear vertical rack rails can be configured for 19 or 23 inch.

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



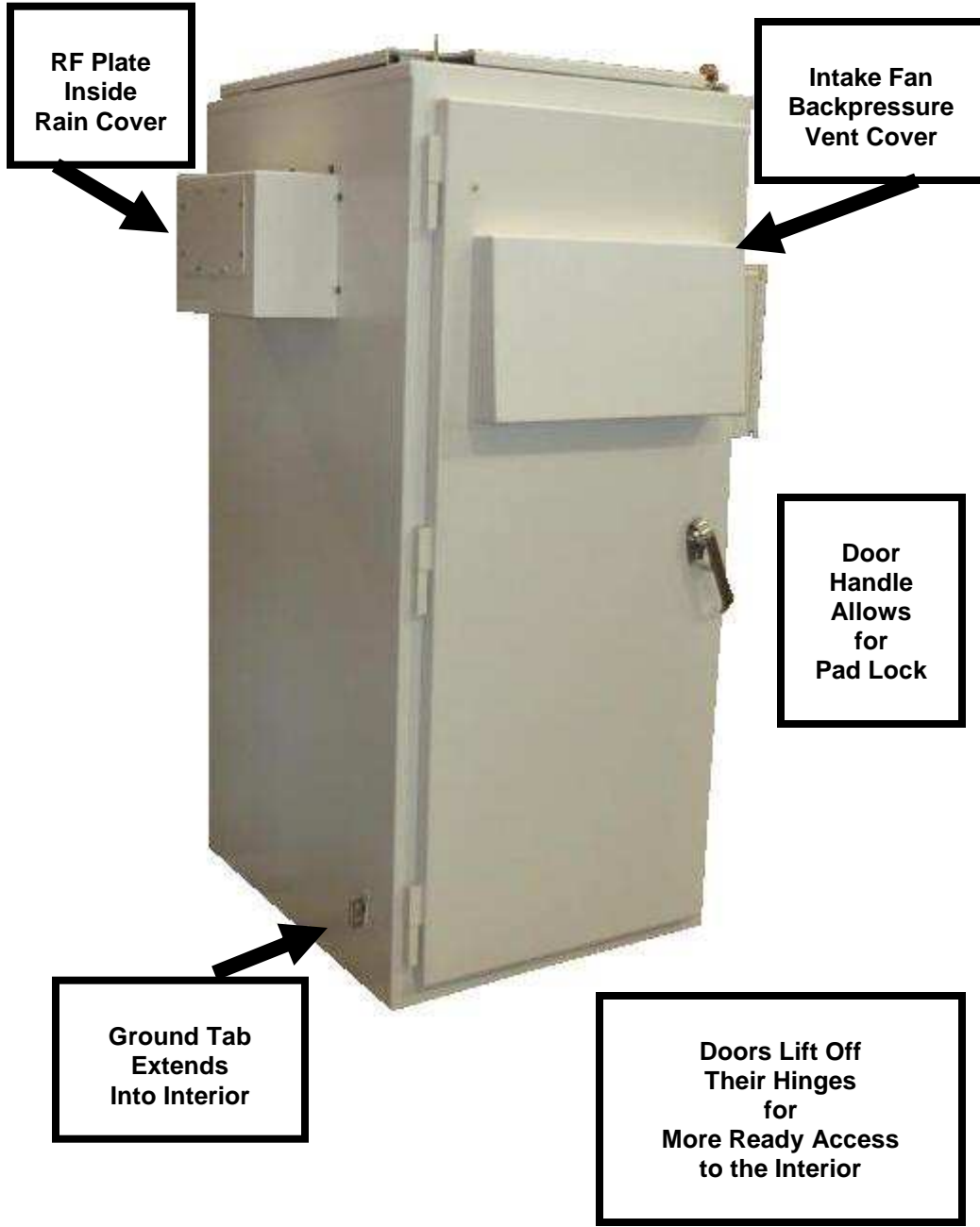
The intake fan is powered from the 48VDC power system within the cabinet. A low-voltage-disconnect (LVD) prevents the fan from overly discharging lead-acid batteries (while running from batteries). The LVD disconnects the fan at 42VDC and reconnects at 49VDC.

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

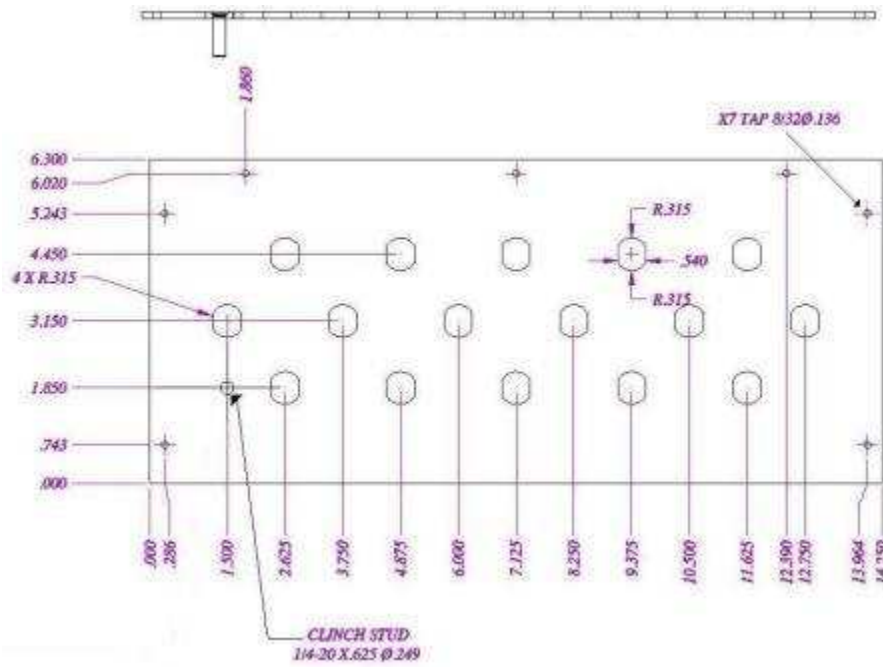
**Sunshield Provides Additional Protection Against
High Outdoor Ambient**

**Eye-Bolts for Hoisting the Cabinet
Remove Batteries Before Hoisting
(Part# A015152A4 Does Not Include Batteries)**

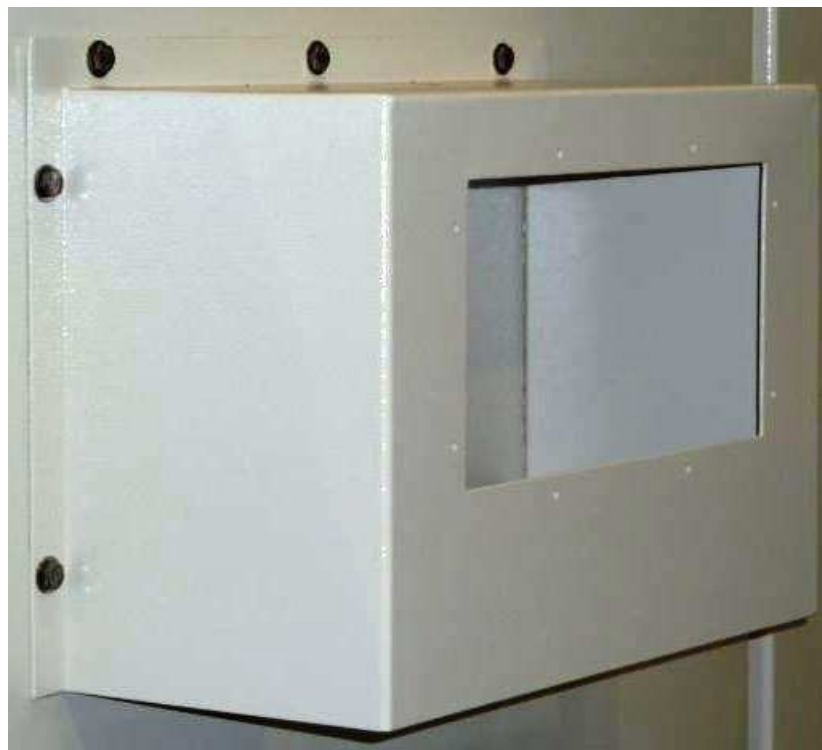


Exterior

RF Plate and Rain Cover



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



Exterior - Aux Box

REV.	DESCRIPTION	DATE	APPROVED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	M000226W	BODY W/TA. AUXILIARY BOX AO1515/A4	1
2	M000228W	DOOR W/TA. AUXILIARY BOX AO1515/A4	1
3	M000018	MTG RAIL AUXILIARY BOX AO1515/A4	2
4	M000221	PLYWOOD AUXILIARY BOX AO1515/A4	1
5	G003093	RIVET 1/8x1/4 DOME HEAD	11

TOLERANCES UNLESS OTHERWISE INDICATED	DR. T.	TITLE
ANGLES 1/8"	DR. E.C.	AUXILIARY BOX S/A AO1515/A4
FRONT DR. 1/8" x 3/16"	SCALE	
2001-0-015	DATE	
	FINISH	

REV.	DESCRIPTION

Exterior

Generator Inlet



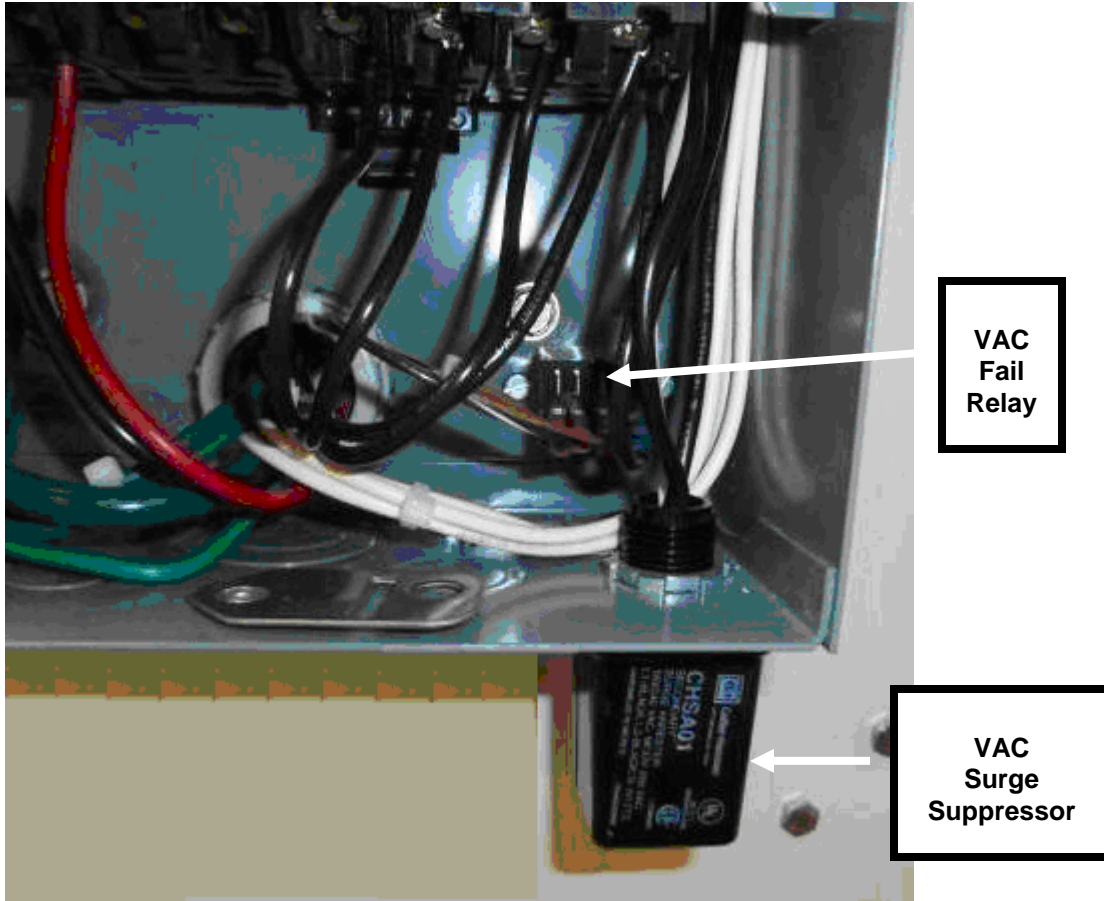
Commercial VAC Power and Generator VAC Power

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

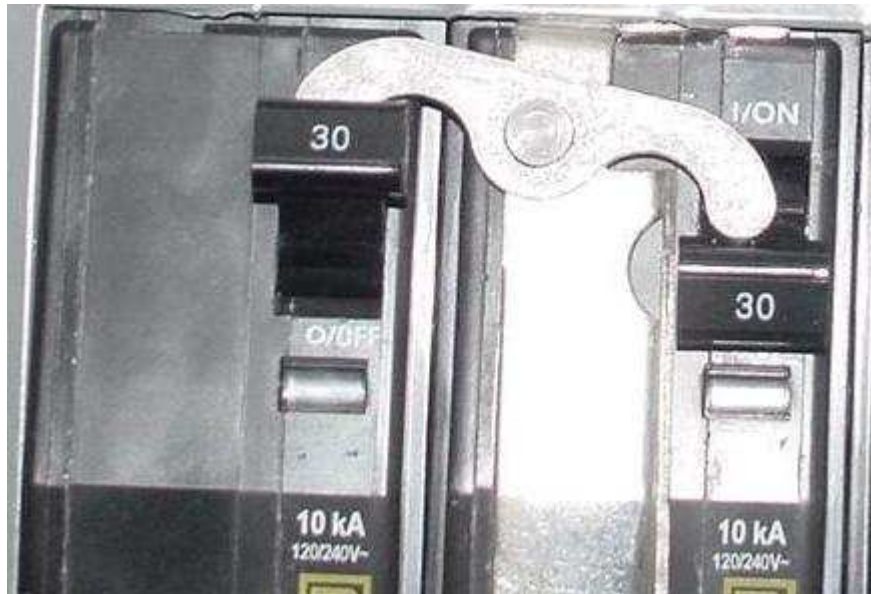
The relay provides an isolated 1-Form C contact closure take-off on TB1. Normally Closed is the de-energized position.

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

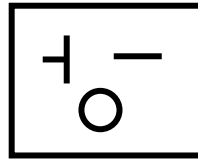
<u>Breaker Position</u>	<u>Breaker Type</u>	<u>Description</u>
1 & 2	2-Pole 30 amp	Primary Input Commercial VAC Power
3 & 4	2-Pole 30 amp	Generator Input from L14-30 Inlet Plug
5	1-Pole 20 amp	5-20R Duplex Receptacle Front Interior Light Back Interior Light
6	1-Pole	5-20R GFCI Duplex Receptacle Convenience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

Interior / Exterior

Duplex Receptacles

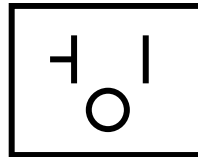


6-20R Duplex Receptacle
Rectifier Shelf VAC Power



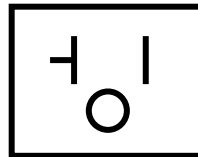
208 / 220 / 240 VAC

5-20R Duplex Receptacle
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 A015152A4 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

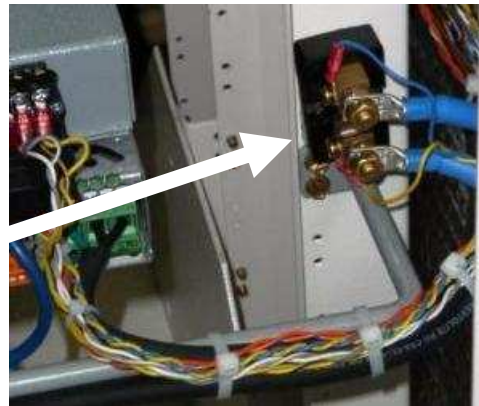


PSC500H Power System Controller

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

Rectifier Current Shunt Setting
is
100 Amps
in
PSC500 Power Control screen

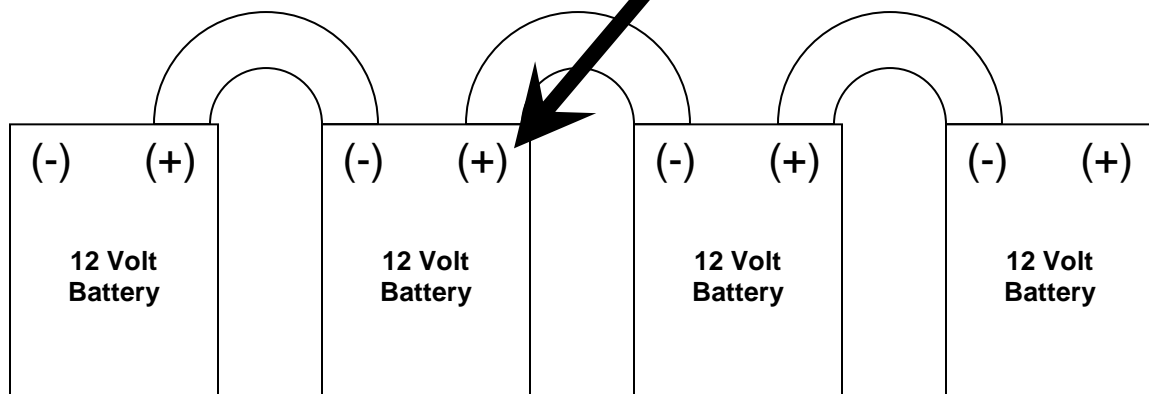
(Leave Battery Shunt at
Zero Amps)



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)**

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

TB1.12 Spare

Interior

Interior Lights and Door Switch

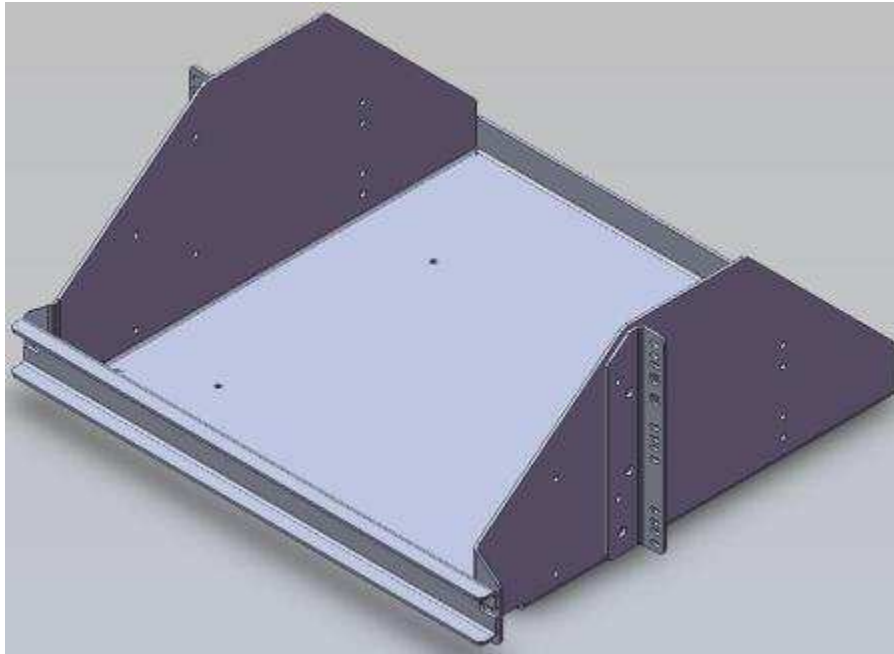
Interior Light Front & Rear (120VAC Power)



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**



A015152A4 Ships From the Factory with No Batteries Installed

Interior

Battery Breaker



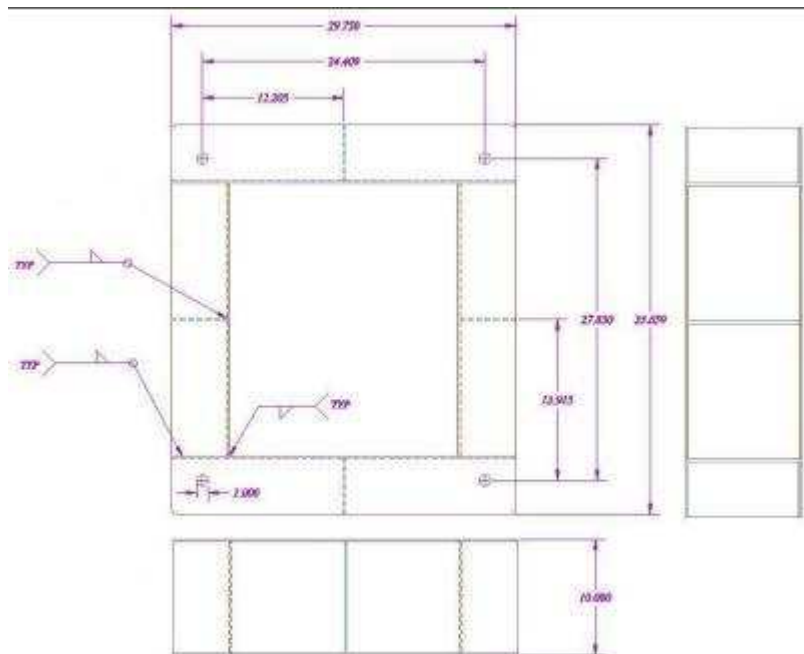
Battery Breaker 60 Amp with Finger Guard

**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 MA015152A4

Original source document located at:

\\DATXNAS01\common2 on Datxnas01\ADSENG\MANUALS\A015152A4

Nov 2010 Issue 1 Originate MA015152A4 manual from MA015152A1 manual

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