

# Illuminated Street Signs & Custom Enclosures



Southern Manufacturing has been providing top quality products for the nation's infrastructure, including the traffic industry, for over 50 years. As a leading manufacturer of enclosures and illuminated street name, blank out and lane control signs, Southern has a history of quality and reliability that dates back to 1939.

Our current product line includes standard and specialized NEMA 3R, NEMA 4, and NEMA 4X enclosures as well as a wide variety of traffic signs including blank out, lane control and illuminated street name signs. All of our products are proudly *Made in America* at our ISO 9001:2008 registered facility located in Longwood, Florida.

As a pioneer in the use of LED light strips in illuminated street name signs, there are thousands of Southern Manufacturing signs installed nationwide. We offer a wide variety of illuminated street signs, including low energy LED signs, fluorescent signs, and induction signs. Southern signs are offered in a variety of styles and can be customized to meet the colors and design demands of every municipality.

Southern Manufacturing is proud to be recognized as a leading manufacturer of Blank Out and Lane Control signs. Southern can design and engineer energy efficient LED signs using standard MUTCD symbols as well as unique displays.

Southern manufactures a complete array of enclosures, from NEMA type Traffic enclosures, Caltrans Style Traffic and ITS enclosures to Industrial Control and Lighting Panels. We offer both bare enclosures and enclosures with fully wired power packages ready for installation of your components. Southern's staff of experienced design engineers and flexible manufacturing capabilities make us a valuable partner on design and build projects.



Southern Manufacturing Circa 1939

# ENCLOSURES

# TRAFFIC SIGNS

FLASHER DETECTOR, STANDARD TRAFFIC,  
CALTRANS STYLE & BATTERY BACKUP ENCLOSURES

BLANK OUT, LANE CONTROL, REGULATORY & WARNING SIGNS

CLEAN PROFILE LED, STANDARD "A" BODY & THINLINE LED

FLASHER/DETECTOR, STANDARD, CALTRANS  
& BATTERY BACKUP ENCLOSURES

BLANK OUT, LANE CONTROL,  
REGULATORY & WARNING SIGNS

ILLUMINATED STREET NAME SIGNS

# TRAFFIC SIGNS



Southern Manufacturing is proud to be recognized as a leading manufacturer of illuminated street name, blank out and lane control signs in the United States. Southern is dedicated to improving technology and fabrication while, at the same time, keeping the highest standards of quality, reliability and low cost of operation for our customers.

Thin LED - Newark, NJ



Clean Profile - Greenville, NC

# CLEAN PROFILE LED, STANDARD "A" BODY & THINLINE LED



- UL listed and meet or exceed all state standards
- Can be installed in the field with no need to open the sign
- No tools are required to open the sign or replace the sign face
- Meets the visibility standard of the FHWA and complies with the 2009 edition of the MUTCD
- Housing is made from .125" powder coated aluminum
- LED signs feature a radiant high temperature fail-safe circuit to maximize life and are driven by an IP66 (or higher) class 2 power supply
- LEDs are bright white and rated for 60,000 hours
- All commonly used photocells can be built into the signs
- Easily accommodates all standard mounting hardware including tri-stud brackets
- Retroreflective sheeting available
- Excellent day and night visibility
- Lenses are impact resistant, 3mm thick UL approved white or clear polycarbonate

## CLEAN PROFILE LED

- Energy efficient with very low wattage required for LED
- Designer style frames available to match individual streetscapes
- One of the most customizable signs on the market today
- Certified to withstand 150 mph winds
- Approved for use in several states with many others pending
- FDOT certified – certificate number 69938912411071
- Independently tested to surpass 6 year thermal cycle test
- Entire surface is illuminated at greater than 400 lux
- Custom styled lenses available
- 7 year limited warranty

**SOUTHERN  
MANUFACTURING'S  
NEWEST AND  
THINNEST IISNS!**

## STANDARD "A" BODY

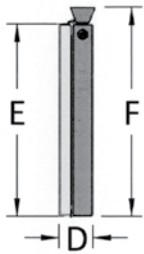
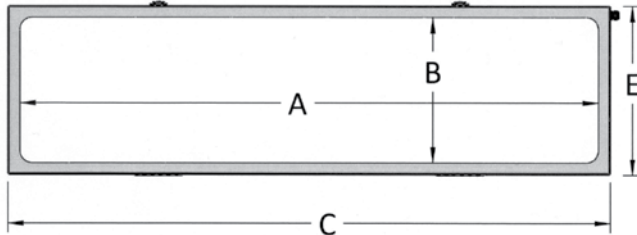
- Available with either LED, fluorescent or induction fluorescent lighting
- Energy efficient with very low wattage required for LED
- Standard "A" body is designed with the face angled at about 9 degrees
- Available in overall heights of 19" and 24" as single or double face signs
- Rated and tested to withstand 110 mph winds with driving rain
- FDOT certified – LED certificate number 69938912411061, fluorescent certificate number 69938882411071
- Independently tested to surpass 6 year thermal cycle test
- 7 year limited warranty

## THINLINE LED

- Streamlined version of the standard LED street sign
- Energy efficient with very low wattage required for LED
- Available in overall height of 19" as single or double face signs
- Rated and tested to withstand 110 mph winds with driving rain
- FDOT certified – LED certificate number 69938912411061
- Independently tested to surpass 6 year thermal cycle test
- 7 year limited warranty

## CLEAN PROFILE LED

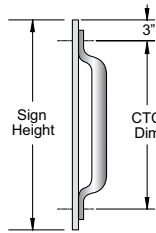
- A Standard viewable widths of 4', 5', 6', 7', 8', 9' or 10' - custom widths available
- B Viewable height of 12" to 24" in 1" increments
- C Overall width of 3" greater than the viewable width
- D Sign depth: 3.75" single faced & 5.15" double faced
- E Overall sign height is 3" greater than viewable area
- F Overall height with mounting tab for tri-stud bracket of B+4.9"
- G Overall height with mating for EZ Bar mount of B+4.9"



Right Side View  
With Tristud Mount  
Option (TA)



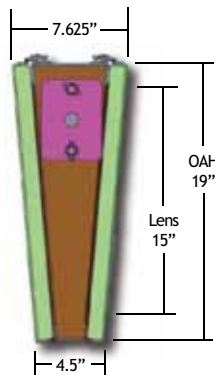
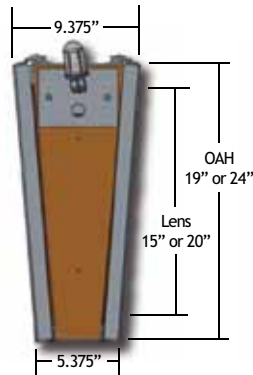
Right Side View  
With EZ-Bar Mount  
Option (TJ)



Right Side View  
With Rear Mount  
Option (RD)

## STANDARD "A" BODY & THINLINE LED

**STANDARD**  
Designed for maximum illumination and easy maintenance. Available in single or double face, LED or fluorescent.



**THIN LED**  
All of the advantages of our standard LED, but a slimmer frame. Rigid or swinging mount. 19 inch only.

### STANDARD A BODY, THINLINE & FLUORESCENT

#### WEIGHT EXCLUDING BRACKETS - DOUBLE SIDED SIGNS

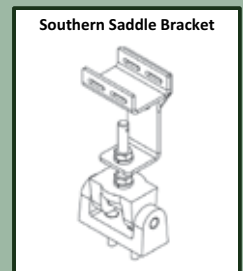
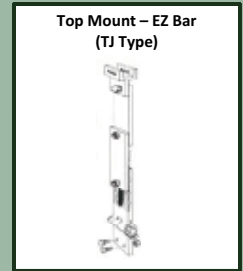
	4' x 19"	6' x 19"	8' x 19"	4' x 24"	6' x 24"	8' x 24"
Clean Profile	39	54	69	44	61	78
Standard	45	64	83	48	69	90
Thin LED	41	60	79	N/A	N/A	N/A
Fluorescent	55	74	94	58	79	101

NOTE: Single Sided Signs weigh approximately 10% less

#### ENERGY CONSUMPTION IN WATTS

	4' SS	6' SS	8' SS	4' DS	6' DS	8' DS
Clean Profile ≤ 18" Tall	21	28	36	21	28	36
Clean Profile ≥ 19" Tall	36	51	66	36	51	66
Standard & Thin LED	21	28	36	36	51	66
Fluorescent	143	143	143	143	143	143

## CLEAN PROFILE HANGING HARDWARE



## KEY FEATURES

- Easy to install and service
- 60,000 hour LEDs
- Uniform brightness
- Custom Sizing
- Light weight (Clean Profile)
- 7 year limited warranty
- UL Listed

## BLANK OUT, LANE CONTROL, REGULATORY & WARNING SIGNS



- Excellent day and night visibility
- Engineered to withstand 110 mph winds
- Minimum projected life of 50,000 hours
- Housing made from .125" powder coated aluminum
- All commonly used photocells can be built into the signs
- Meets the visibility standards of the FWHA and the MUTCD
- Signs are UL listed and meet or exceed all state standards
- Can be installed in the field with no need to open the sign



### BLANK OUT SIGNS

- Sizes range from 24" up to 60" wide
- Visible from at least 700 yards when illuminated with automatic dimming at night
- Blank black face when not illuminated
- Single or multiple image displays
- LEDs are through mounted into solid state conformal coated printed circuit boards
- All LEDs meet the ITE standards for color and viewing angle
- Circuitry is designed so the display is discernible should an LED fail and does not result in failure of other LEDs
- LEDs are protected by a matte finish polycarbonate protective overlay
- Internal power supplied for each display
- Designed to deliver constant power to the LEDs
- Meets all relevant standards and have passed the following tests:
  - IAW NEMA TS2 vibration requirements
  - MIL-STD-810, Method 502.4, Procedure II – Cold weather to -55°C
  - MIL-STD-883, Method 2007, Condition A – Vibration
- NEMA 3R housings are made from .125" marine grade aluminum with sun visors
- All hardware is stainless steel
- Multiple mounting options and hardware available



### LANE CONTROL SIGNS

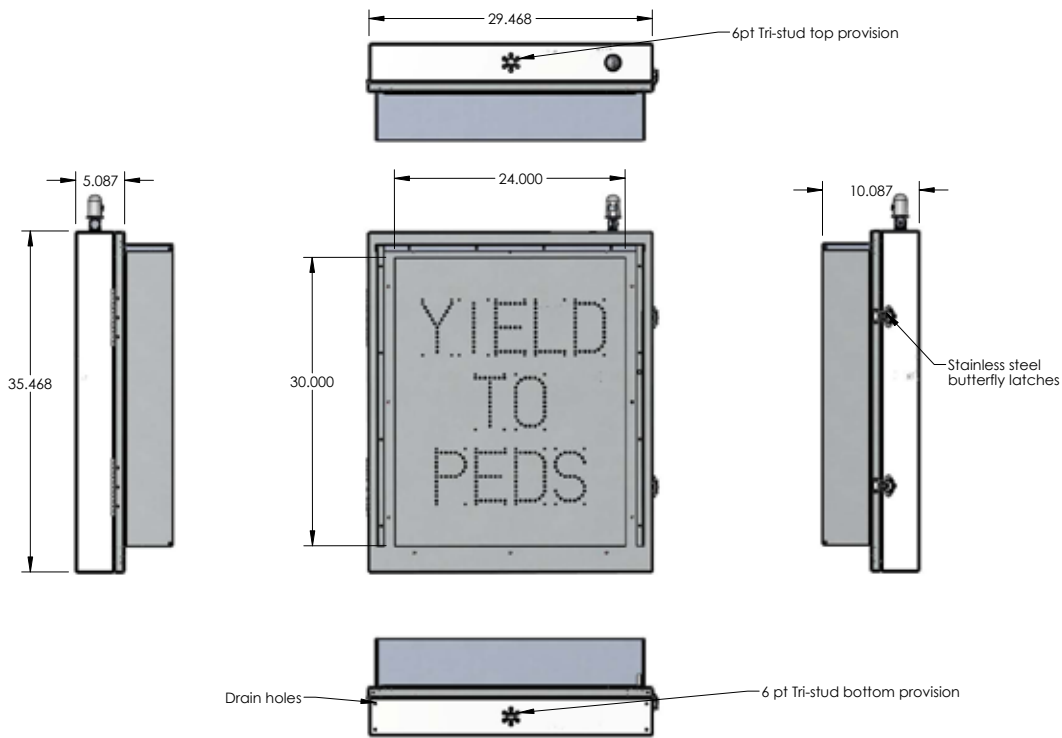
- Sizes range from 18" up to 36" wide
- Incorporates all of the features and designs of blank out signs
- Up to 5 messages including the green down arrow and red X
- Double row LED displays



### ILLUMINATED REGULATORY & WARNING MUTCD SIGNS

- Excellent visibility at night, always visible and lit with LEDs
- Ideal for use in areas with limited visibility such as fog or underpasses
- All standard MUTCD displays are available as well as customized variations
- The standard light engine is the same LED strips that are used in Southern's internally illuminated street name signs and are rated for 60,000 hours





### BODY AND DOOR FRAME

The body and door frame is produced using high grade aluminum. The bodies are continuously welded for superior strength and weather protection. Neoprene gaskets provide a tight seal around the lenses and doors. Full length stainless steel hinges are used on our sign bodies. The doors are double channeled for a weather tight seal. The door frame and body is powder coated with black satin and other finishes are available as well. The butterfly latches are stainless steel and quick release. Glare shields are also available.

### LIGHT EMITTING DIODES (LED)

The LED package is a T1 3/4 and uses a white or clear lens. Each LED is parallel wired to insure independent operation and prevent sequential failure. The LED's are under driven by 30-35% to increase reliability.

### POWER SUPPLY

The input voltage is 120 to 240 volts A/C, at 50/60 hertz, switch selectable. Each sign is designed with over current and transient protection.



Jacksonville, FL

# ENCLOSURES



## Enclosures & Detector Boxes

Southern Manufacturing offers a complete line of aluminum enclosures. In addition to NEMA 3R and Caltrans enclosures for the traffic industry, Southern designs and manufactures enclosures for a wide variety of industries including stadium lighting, general lighting, solar energy, water treatment plants, waste water treatment, water parks and light rail. The options and variety is almost endless and includes double door and quad door configurations; with or without louvers and racks. All enclosures are built to UL standards and the majority are UL Listed.



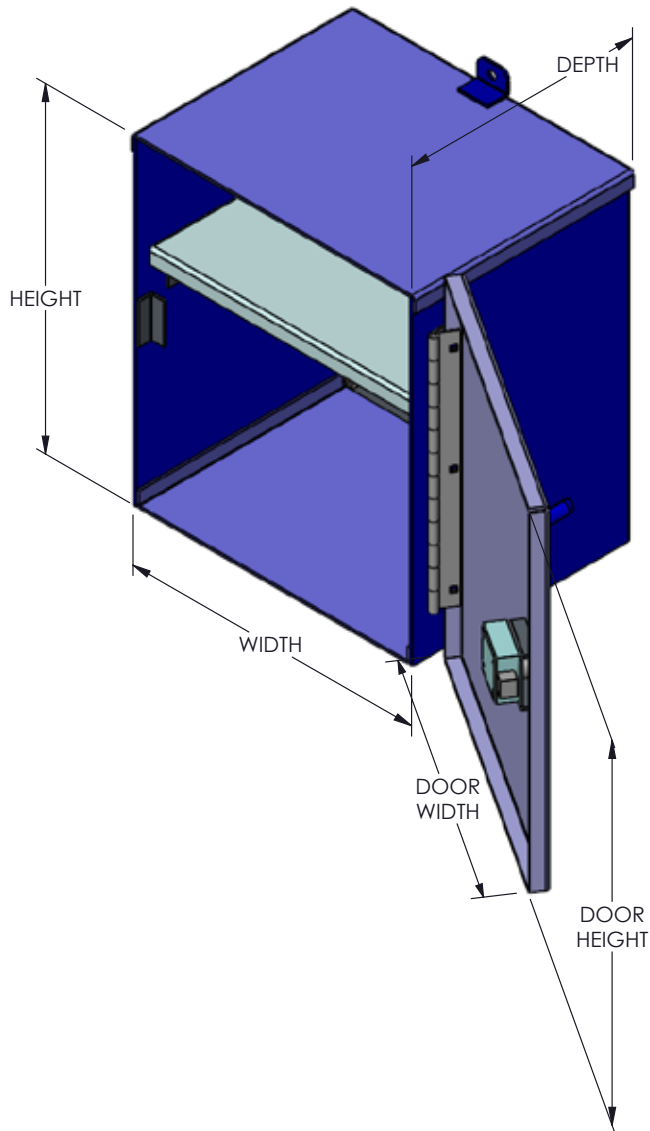
## FLASHER/DETECTOR ENCLOSURES



### STANDARD FEATURES

- Proudly *Made In America* at our ISO 9001:2008 registered facility
- Constructed from .125" thick 5052-H32 marine grade aluminum
- Single point latching
- Lock is a slam, Corbin style, keyed # 2 lock w/ two keys
- Pad has a lockable hasp
- Hinge is heavy duty and tamper proof continuous 14 gauge stainless steel
- Permanently bonded neoprene door gasket
- Screened louvers for ventilation
- Mounting flanges for pole or wall
- Back panel is .125" thick aluminum
- Shelf is fixed .125" thick aluminum





FLASHER/DETECTORS				Mounting Options			
Enclosure Dimensions	Cabinet No.	Cabinet Type	Description	Base	Pole	Wall	Pedestal
12'H X 10"W X 6"D		RHUB	Remote Hub	n/a	Opt	Std	Opt
24'H X 24"W X 12"D		LHUB	Local Hub	n/a	Opt	Std	Opt
14'H X 11"W X 14"D	I		Flasher	n/a	Opt	Std	Opt
16'H X 11"W X 11"D	I		Flasher	n/a	Opt	Std	Opt
16'H X 12"W X 10"D	I		Flasher	n/a	Opt	Std	Opt
16'H X 14"W X 11"D	I		Flasher	n/a	Opt	Std	Opt
16'H X 14"W X 14"D	I		Flasher	n/a	Opt	Std	Opt
16'H X 16"W X 11.563"D	I		Flasher	n/a	Opt	Std	Opt
16.25'H X 14"W X 12"D	I		Flasher	n/a	Opt	Std	Opt
27"H X 15"W X 12"D	II		Flasher	Opt	Std	Opt	Opt

# STANDARD TRAFFIC & ELECTRICAL ENCLOSURES



## STANDARD FEATURES

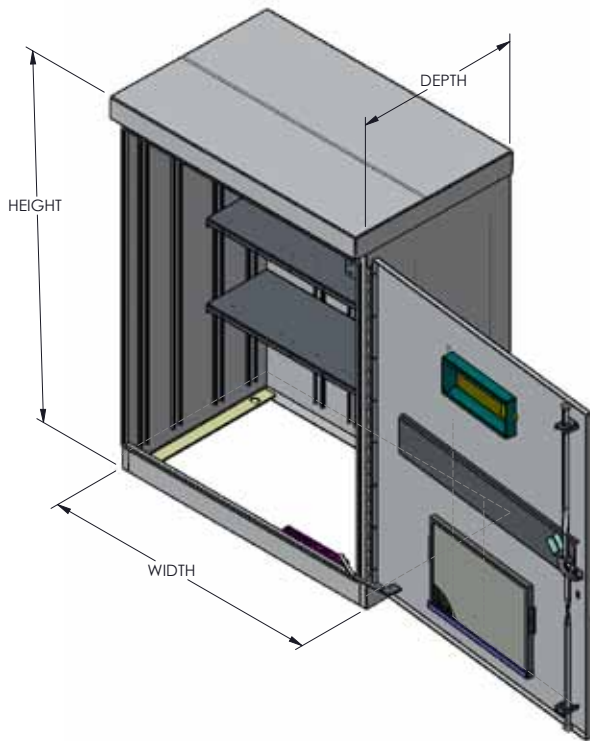
- Proudly *Made In America* at our ISO 9001:2008 registered facility
- Available in base or pole mounting
- Constructed to NEMA 3R standards and UL Listed
- Constructed from .1875" thick 5052-H32 marine grade aluminum with a mill finish
- Cantilever roof slopes towards rear to prevent standing water
- Vent slots on the underside of roof over-hang with insect screen
- Double flanged door opening all around
- Permanently bonded neoprene gasket
- Handle is pad lockable, heavy duty, 3/4" stainless steel with internal seal
- Lock for the main door is a deadbolt, Corbin style keyed #2 w/ two keys.
- Police door w/skeleton lock & key
- Latching is three point with a stainless steel center cam and nylon rollers for top and bottom strikers
- Door stop rod is plated steel with three positions (90, 120 & 180 deg.)
- Louvers in door and a woven fiberglass disposable air filter
- Fan plenum, for single 4" fan
- Heavy duty stainless steel hardware
- Hinge is heavy duty and tamper proof continuous 14 gauge stainless steel
- Equipment mounting rails are mounted on the back and side walls
- Two shelves 11"D
- Door switch bracket to accommodate two .5" diameter switches

## ENCLOSURE OPTIONS

- Drawer with a pull out with non slip surface
- Auxiliary compartment
- Fan plenum, 6" single fan
- Fan plenum, 4" and 6" dual fans with divider
- Back panel
- Saw tooth mounting rails
- Flush mount police door
- Fan and light kits
- Custom lock keying
- Metal washable air filter
- Pleated air filter
- Aluminum air filter cover

## RISERS OPTIONS:

- Available in solid or split designs
- Multiple heights available
- Available with shelves



TRAFFIC ENCLOSURES				Mounting Options			
Enclosure Dimensions	Cabinet No.	Cabinet Type	Description	Base	Pole	Wall	Pedestal
32"H X 20"W X 14"D	III	TS	Standard Traffic	Opt	Std	Opt	Opt
41"H X 24"W X 16"D	III	G	Standard Traffic	Opt	Std	Opt	Opt
50"H X 30"W X 16.5"D	IV	M	Standard Traffic	Std	Opt	Opt	Opt
50"H X 30"W X 16.5"D	IV	M-DD	Front & Rear Doors	Std	Opt	Opt	Opt
50"H X 36"W X 16.5"D	IV	M-36	Wide M	Std	Opt	Opt	Opt
60"H X 30"W X 16.5"D	IV	MSX	Stretched M	Std	Opt	Opt	Opt
60"H X 36"W X 16.5"D	IV	MSX-36	Wide-Stretched M	Std	Opt	Opt	Opt
59"H X 38"W X 26"D	V	P-38	Standard Traffic	Std	Opt	Opt	Opt
59"H X 40"W X 26"D	V	P	Standard Traffic	Std	Opt	Opt	Opt
59"H X 40"W X 26"D	V	P-DD	Front & Rear Doors	Std	Opt	Opt	Opt
59"H X 44"W X 26"D	V	P-44	Standard Traffic	Std	Opt	Opt	Opt
59"H X 44"W X 26"D	V	P-44-DD	Front & Rear Doors	Std	Opt	Opt	Opt
75"H X 40"W X 26"D	VI	R	Standard Traffic	Std	Opt	Opt	Opt
75"H X 44"W X 26"D	VI	R-44	Standard Traffic	Std	Opt	Opt	Opt
75"H X 44"W X 26"D	VI	R-44-DD	Front & Rear Doors	Std	Opt	Opt	Opt
77"H X 44"W X 26"D	VI	R-44	Standard Traffic	Std	Opt	Opt	Opt
77"H X 44"W X 26"D	VI	R-44-DD	Front & Rear Doors	Std	Opt	Opt	Opt

# CALTRANS STYLE ENCLOSURES



## STANDARD FEATURES

Common designations: 333, 334, 334ED, 334D, 334SED, 336, 336S and 340

- Proudly *Made In America* at our ISO 9001:2008 registered facility
- Enclosure is constructed to NEMA 3R standards and UL Listed
- Available in base or pole mounting
- Constructed from .125" thick 5052-H32 marine grade aluminum with mill finish
- Pagoda style top with screened vents to prevent standing water
- Doors designed for 100 pound per vertical foot of door height load
- Louvers are provided in front and rear doors
- Washable, metal air filter and louvered metal filter cover
- Door openings are double flanged all around
- Doors are provided with permanently bonded, neoprene gaskets
- Handles are pad lockable, heavy duty, 3/4" stainless steel with internal gasket
- Corbin style locks, keyed #2 with two keys
- Latching has a three point stainless steel center cam and nylon rollers for top and bottom strikers
- Door stop rods, aluminum, two position door stop rods (90° & 120°)
- Hinges are tamper proof heavy duty 14 gauge stainless steel
- Fan plenum plate for dual 4" fans and thermostat mounting bracket
- 19" EIA rack frame, electrolytic zinc plated and 10 gauge steel tapped #10-32
- Heavy duty type 304 stainless steel enclosure hardware
- Document pouch is 12" x 15" and re-sealable on the front and rear doors
- Door switch bracket accommodates two 1/2" diameter switches in both doors
- Light fixture brackets in the front and rear
- Two lifting eyes are heavy duty aluminum and designed to support 1000 lbs



## SHELF OPTIONS

- Full depth shelf, rack mounted and adjustable with 4 point attachment
- 14" depth self, rack mounted and adjustable with 2 point attachment
- Heavy duty self, rack mounted and adjustable with 4 point attachment
- Pull out drawer, rack mounted and adjustable with a non slip surface
- DIN mounting panels, rack mounted and available in 3, 4, and 5 RU

## LIGHTING OPTIONS

- Light with standard fluorescent, 120 VAC and door activated
- Light with high efficiency LED, 120 VAC or 12 VDC and door activated

## SERVICE ENTRANCE POWER PANELS OPTIONS

- Rack mounted or side mounted
- 120 VAC, single phase
- 120/240 VAC, split phase

## GENERATOR COMPARTMENT OPTION

- 120 VAC, 30A, single phase
- 120/240 VAC, 50A, split phase







# BATTERY BACKUP SYSTEM CABINET (BBS)

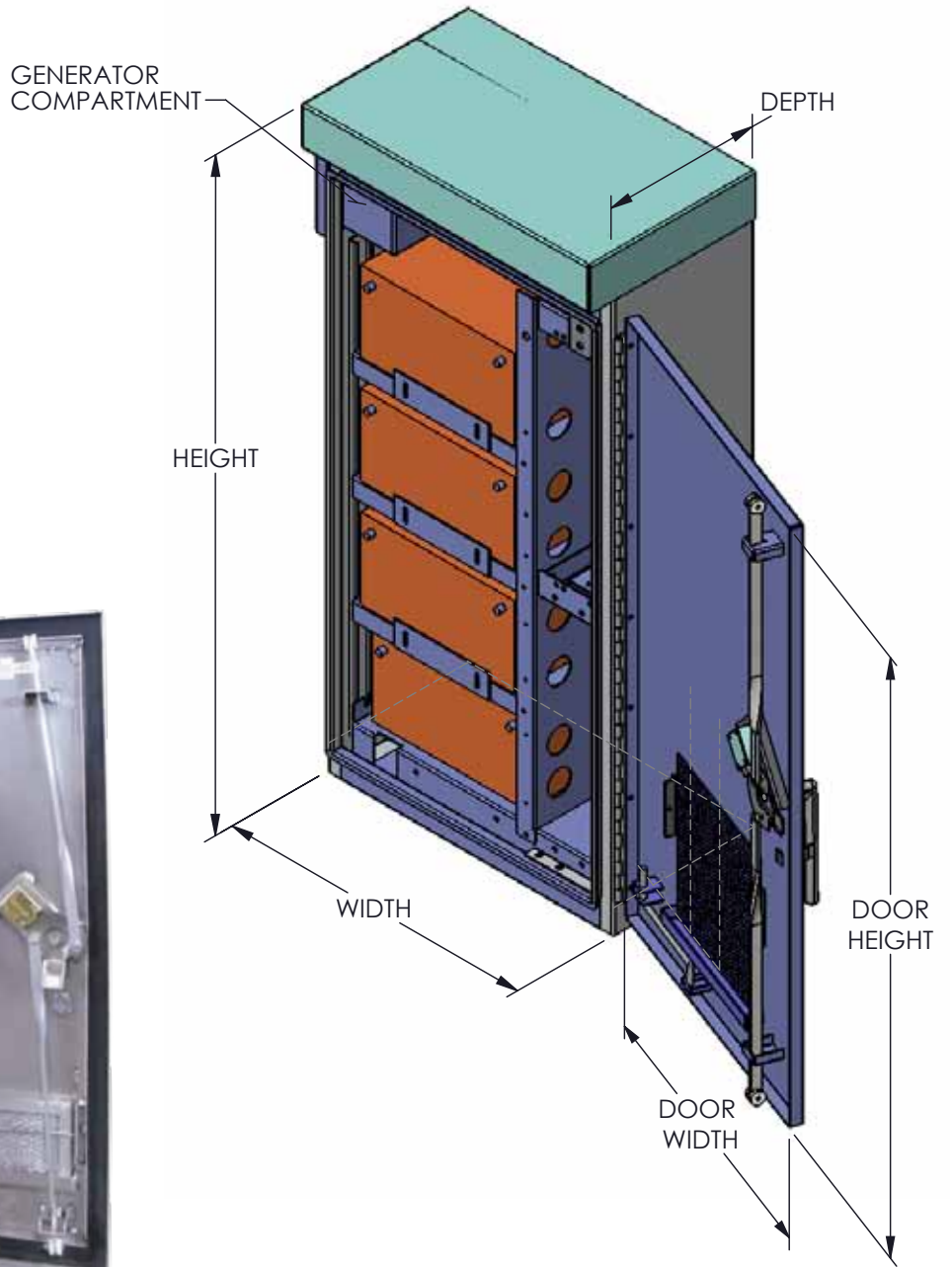
## STANDARD FEATURES

- Proudly *Made In America* at our ISO 9001:2008 registered facility
- Available in base or pole mounting
- Constructed to NEMA 3R, 4, 4X standards and UL Listed
- Constructed from .125" thick 5052-H32 marine grade aluminum with mill finish
- Cantilever roof slopes toward the rear to prevent standing water
- Vent slots on the underside of roof over-hang with insect screen
- Door opening is double flanged
- Doors have a permanently bonded neoprene gasket
- Handles are pad lockable, heavy duty, 3/4" stainless steel with internal gasket
- Main door lock is a deadbolt Corbin style keyed #2 w/ two keys
- Latching has a three point stainless steel center cam and nylon rollers for top and bottom strikers
- Door stop rod is yellow zinc plated steel with three positions (90, 120 & 180 deg.)
- Louvers in door and a woven fiberglass disposable air filter
- Fan plenum, 4" single fan
- Heavy duty stainless steel hardware
- Hinges are tamper proof heavy duty 14 gauge stainless steel
- Equipment mounting rails mounted on back and side walls
- Shelves are heavy duty battery shelves
- Accommodations for rack or shelf mounted equipment
- Door switch bracket to accommodate two 1/2" diameter switches

## ENCLOSURE OPTIONS

- Rails to mount rack mounted inverters and other components
- Pull out drawer with a non slip surface
- Generator compartment with plug and optional indicator light
- Fan plenum, 6" single fan
- Fan and light kits
- Custom lock keying
- Metal washable air filter
- Pleated air filter
- Aluminum air filter cover





### BATTERY BACK SYSTEM ENCLOSURES

Enclosure Dimensions	Cabinet Type	Base Mount	Pole Mount	Wall Mount	Piggyback Mount	Gen Port
34'H X 18.5"W X 12"D	BBS	Opt	Opt	Opt	Std	Opt
40'H X 20"W X 10"D	BBS	Opt	Opt	Std	Opt	Opt
41'H X 24"W X 16"D	BBS	Opt	Opt	Std	Opt	Opt
42'H X 12"W X 08"D	BBS	Std	Opt	Opt	Opt	Opt
43"H X 20"W X 13"D	BBS	Std	Opt	Opt	Opt	Opt
48"H X 17"W X 17"D	BBS	Opt	Opt	Std	Opt	Opt
48"H X 20"W X 14"D	BBS	Std	Std	Opt	Opt	Opt
50"H X 24"W X 13"D	BBS	Std	Opt	Opt	Opt	Std
58"H X 30"W X 17"D	BBS	Std	Opt	Opt	Opt	Std



## **QUALITY POLICY**

To achieve total customer satisfaction...

### **Quality is our Commitment**

The quality of products and services will always be a number one priority.

### **Customer Focus is the Key**

Our goal is to communicate effectively with our customer and provide a level of expertise, skill and capability that meet or exceed all of their expectations.

### **Continuous Improvement Paves the Way**

We will always strive to operate more efficiently and provide better products and services to our customers.

### **Safety is Always Paramount...**

Safety will never be sacrificed in order to meet our other objectives

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