

# STAINLESS STEEL PANELBOARD

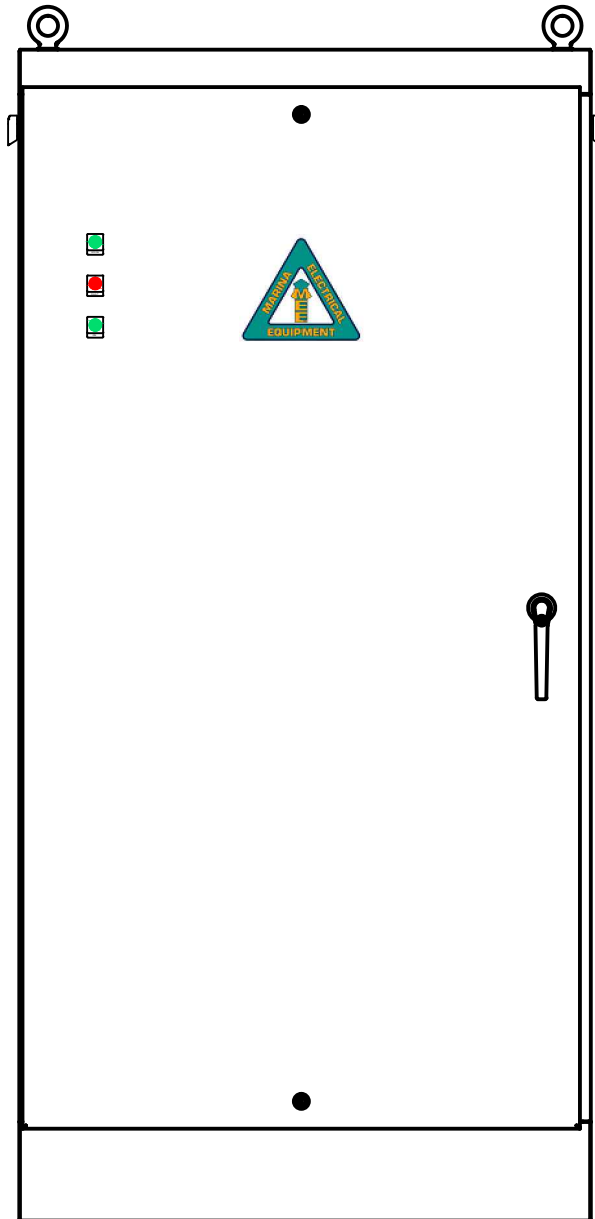
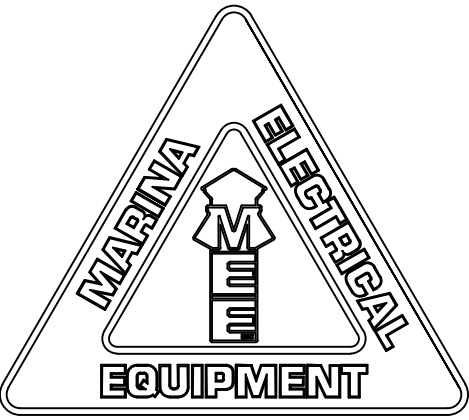
Models

MEE5-76EL4015SSFS

&

MEE5-89EL4015SSFS

Installation, Maintenance, and  
Operation Manual



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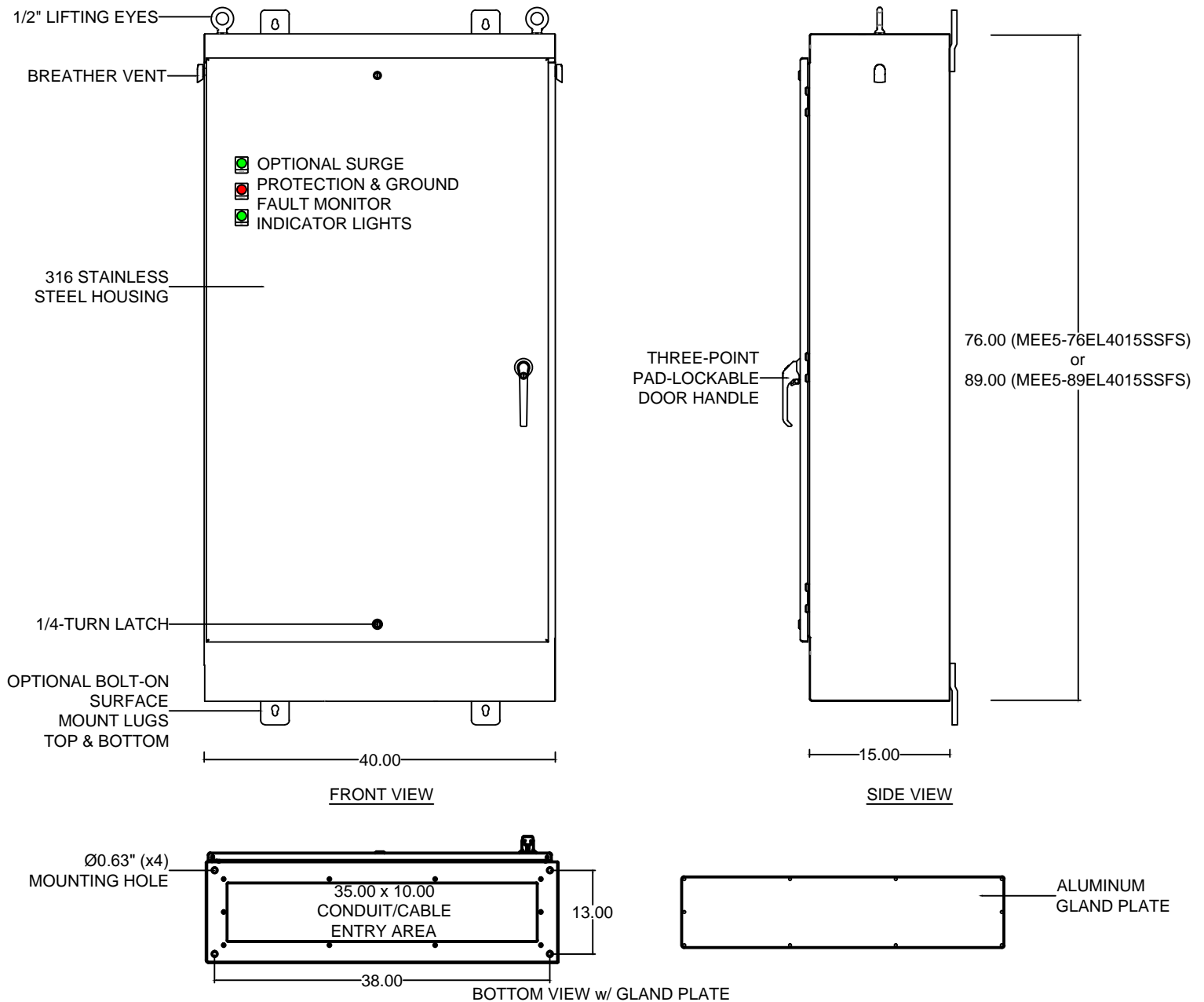
# Stainless Steel Panelboard

## Installation, Maintenance, and Operation Manual

### INTRODUCTION:

### PRODUCT DESCRIPTION:

The Stainless Steel Panelboard is designed to provide a load to industrial equipment. The Stainless Steel Panelboard ranges from 100A to 1200A, single or three phase, with copper or aluminum bussing. Main breaker or main lug options are available. Panelboard assemblies shall be series or fully rated up to 200 kAIC. Removable gutter trim panels provide easy access to electrical components for installation and field maintenance. The Stainless Steel Panelboard is UL/ETL/CSA-Listed, NEMA 3RX rated, and constructed of 12 gauge 316L stainless steel with a white textured powder-coat finish.



### ESTIMATED WEIGHTS:

MEE5-76EL4015SSFS: 537 lbs.\*

MEE5-89EL4015SSFS: 587 lbs.\*

\*Exact weight may vary depending on panelboard interior size, branch feeder circuit breaker size & quantity, and additional selected options.

END OF SECTION

Specifications Subject to Change Without Notice

# Stainless Steel Panelboard Installation, Maintenance, and Operation Manual

## **CAUTION**

Use lockout/tag-out precautions as prescribed in OSHA, NFPA 70E and other safety manuals during maintenance shutdown of any systems or circuits. Marina Electrical Equipment, Inc. will not assume any responsibility for property damage or personal injury resulting from misuse of the information in this manual.

**WARNING:** BEFORE INSTALLING OR WORKING ON PANELBOARD ELECTRICAL EQUIPMENT READ THE INSTALLATION INSTRUCTION IN ITS ENTIRETY. ONLY QUALIFIED ELECTRICIANS OR CONTRACTORS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THIS PANELBOARD SHOULD INSTALL THIS EQUIPMENT OR ANY ELECTRICAL DEVICE. INSTALLATION SHOULD BE DONE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRIC CODES.

FOR ALL CONSTRUCTION: **WARNING HAZARDOUS VOLTAGE** CAN CAUSE SEVERE INJURY, DEATH, OR DAMAGE TO EQUIPMENT. DE-ENERGIZE UPSTREAM SOURCE BEFORE OPENING UNIT SUBSTATION. CHECK THAT ALL WIRES HAVE ZERO VOLTAGE.

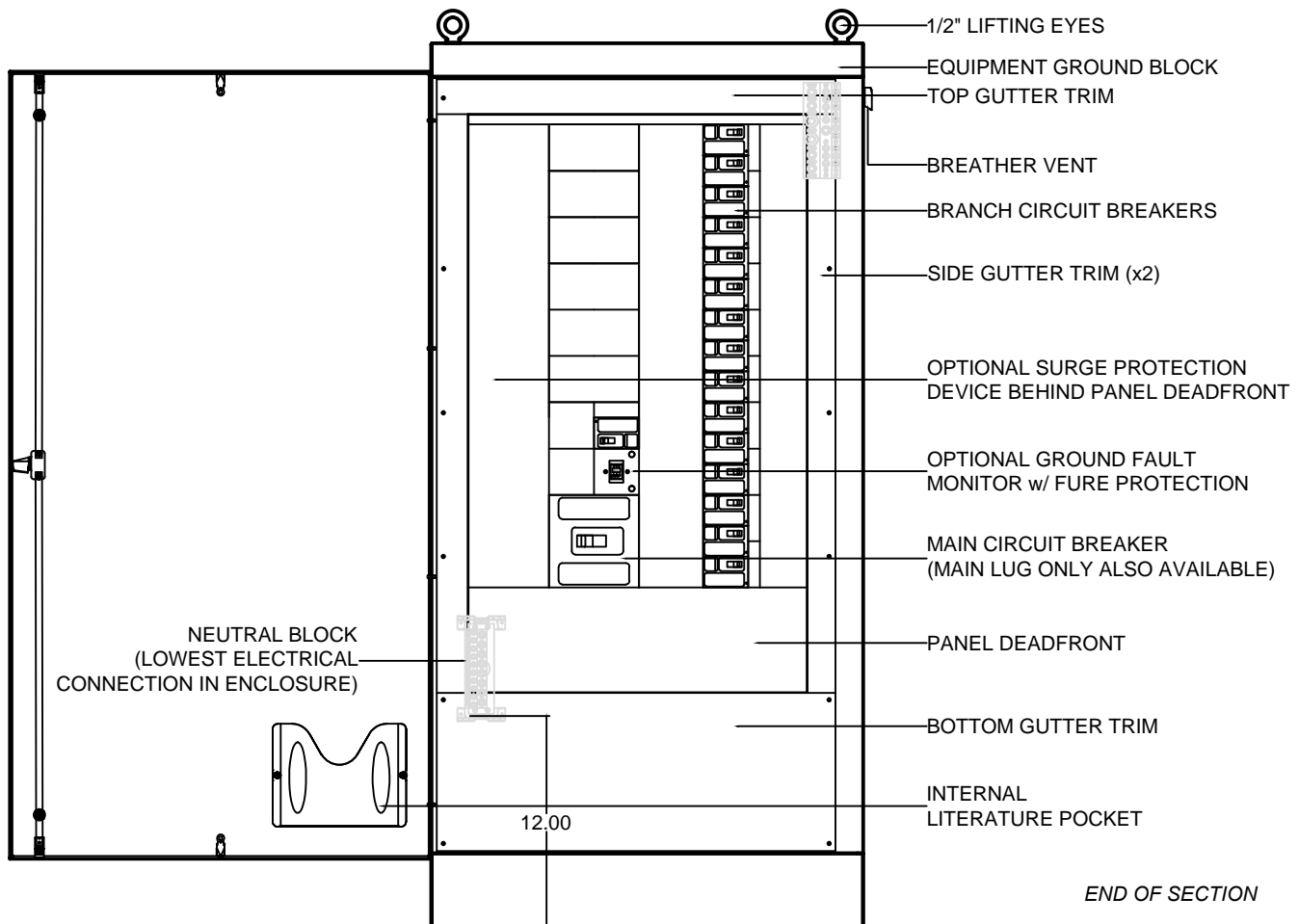
## **INSTALLATION:**

### **Step 1: Lifting the Panelboard:**

- Light the panelboard is accomplished via the two (2) 1/2" lifting eyes provided at the top of the unit.

### **Step 2: Remove the Gutter Trim Panels and Deadfront**

- Open the door of the unit and remove the four (4) gutter rail trim pieces and deadfront to expose the interior of the enclosure.



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# Stainless Steel Panelboard

## Installation, Maintenance, and Operation Manual

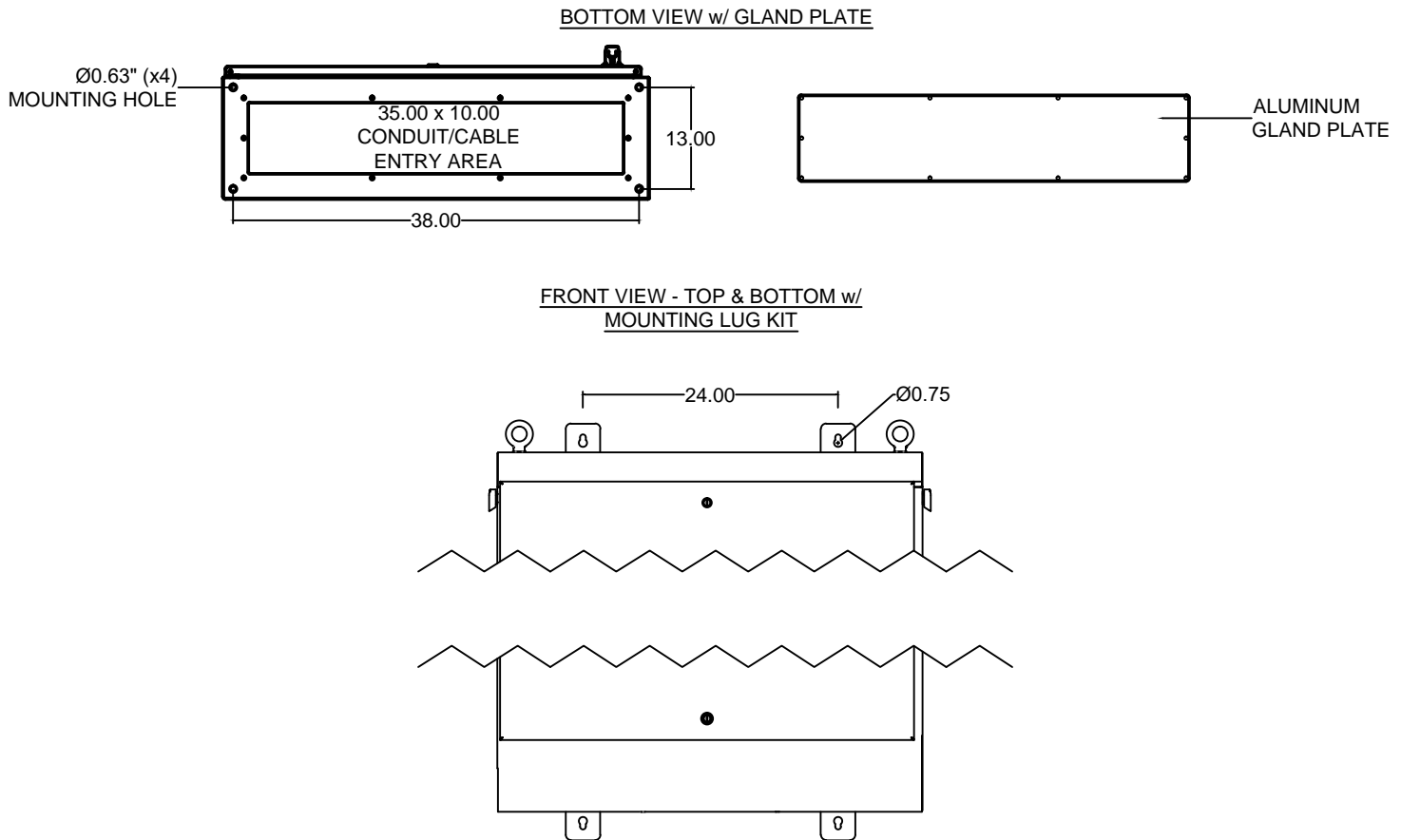
### STEP 3: Mounting the Panel

Note: the panel mounting surface must be flat and level for proper mounting. Warped decking or uneven concrete can be shimmed with stainless steel washers to provide a level surface for mounting.

On Wooden Docks: At each bottom corner, mount the panel enclosure to the dock surface with one (1) 1/2" stainless steel bolt, nut and two (2) washers for through-bolting, or one (1) 1/2" stainless steel lag bolt and washer for surface mounting.

On Concrete Docks: At each bottom corner, mount the panel enclosure to the dock surface with one (1) 1/2" stainless steel compression bolt, nut and washer or (1) 1/2" stainless steel threaded rod cast in concrete per the appropriate footprint.

On Vertical Surface (Wall/Rack): At each corner, fit the optional bolt-on mounting lug to the exterior back wall of the enclosure. Mount the enclosure using 1/2" stainless steel bolts.



### STEP 4: Wiring Main & Branches

Remove gland plate from inside the bottom of the enclosure. Punch or cut desired holes in the gland plate for each cable entry and install the appropriate fittings. Secure the gland plate and guide the main feeder and all branch circuit wires through the gland plate to the appropriate termination points (i.e. main lug, main circuit breaker, and branch circuit breakers, etc.). A circuit directory is included on each door for circuit identification.

**NOTE:** Install all main and branch circuit wires to each breaker following the torque value label marked on each breaker/lug.

### STEP 5: Re-Secure Gutter Trim Panels and Dead Front

Re-secure the panel dead front and each gutter trim piece to complete panel board installation.

END OF SECTION

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# Stainless Steel Panelboard

## Installation, Maintenance, and Operation Manual

### EXTERIOR MAINTENANCE:

Dirt, grime, bird droppings and insect residue can be removed by use of a mild degreasing solution mixture of one teaspoon per gallon of warm water. Gently scrub the housing exterior and rinse clean. Spiders and other insects can be controlled by use of a **WATER-BASED** insect spray.

**WARNING: DO NOT use any petroleum or solvent-based insect spray or corrosion inhibiting products on any part of the power pedestal. These solvents will compromise the structural integrity of the polycarbonate material and cause stress cracking and material failure. Use of any such solvents will void the manufacturer's warranty.**

### TOUCHING UP DAMAGED POWDER COAT:

- 1) Scuff the area well with wet and dry 220-grit sandpaper.
- 2) Clean the area (dishwashing detergent and water) and allow to dry.
- 3) Shake the touch-up powder paint can vigorously for two to three minutes each time you are going to use it to paint.
- 4) Apply the paint in thin coats until you achieve the correct darkness of color. Apply the paint at approximately 8 inches from the surface. Allow each coat of paint to dry for at least 30 minutes before applying another coat. In most cases you can reach the desired color in three coats of paint. In rare cases you might require more than three coats of paint; if this is the case let the final coat dry for at least 24 hours before touching the surface.

### Annual Main Lug/Main Circuit Breaker and Branch Circuit Breaker Maintenance

Open the main door and remove the gutter rails and dead front to expose the **de-energized** panel interior. The main lug/main circuit breaker and each circuit breaker lug should then be thoroughly examined for signs of excessive heating, loose and/or corroded connections, and any other sign of damage or wear. All loose or damaged connections need to be tightened or replaced.

It is critical that each termination be examined thoroughly for signs of corrosion. Most mechanical lugs are made of aluminum are highly prone to galvanic corrosion in the harsh marine environment. If any lug set screw cannot be fully tightened, that lug must be replaced before re-energizing.

Thoroughly examine the copper wire to aluminum lug connections for signs of corrosion. If any corrosion is found, simply remove the copper wire, clean the wire, coat with **synthetic** anti-corrosion grease and reinstall the wire.

END OF SECTION

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# Stainless Steel Panelboard Installation, Maintenance, and Operation Manual

## WARRANTY POLICY

### Housings:

Marina Electrical Equipment, Inc. (MEE) warrants that the main housing and attached parts (top, lens, doors, receptacle faceplates, circuit breaker plates, and mounting base plate) will be free from failure resulting from defects in material and/or workmanship, and are covered by a limited warranty of one (1) year. Should any of the above parts fail to comply with the above-mentioned warranty, MEE will either repair or replace the defective part(s), or credit the purchaser for the purchase price of the part. This warranty is voided if any petroleum-based solvent is used anywhere on or near any of the polycarbonate parts. These parts include but may not be limited to: the top, lens, doors, receptacle faceplates, circuit breaker plates, terminal blocks and the mounting base plate.

### Internal Components:

MEE warrants that all internal electrical components shall be covered by a limited warranty of one (1) year. Items covered include: receptacles, circuit breakers, photocells, lamp holders, coil transformers, counters and wiring harnesses. Should any of the above parts fail to comply with this warranty policy, MEE will coordinate the repair or replacement of the defective part(s) with the respective supplier.

### Solid-State Electric kWh Monitors:

MEE warrants that the International Intelligent Meter (IIM) solid-state electric kWh monitors will be free from failure resulting from defects in material and/or workmanship, and are covered for one (1) year. Although the IIM meters contain integrated surge protection, MEE and IIM will not warrant the product against severe over-voltage conditions such as lightning strikes or abnormal utility surges. Should an electric monitor fail to comply with the above-mentioned warranty, MEE will either repair or replace the defective part(s)/components, or credit the purchaser for the purchase price of the part. This warranty is voided if the damage to any or all of the components is the result of abuse, misuse, or Force Majeure. This warranty is voided if the factory seal is broken or manipulated.

This warranty policy does not cover damage or failure resulting from abuse, misuse, negligence or Force Majeure. All warranty claims must be made in writing and all defective products shall be returned to MEE for evaluation unless stated otherwise by MEE. MEE will not be responsible for reimbursing the purchaser for any sort of expense incurred by the purchaser as a result of the repair or replacement of a warranty claim.

Send all warranty claims to:

Marina Electrical Equipment, Inc.  
1715 Merrimac Trail  
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Toll Free: 1-855-258-3939

Fax: 757-258-3988

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