



Sensata Technologies

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Introduction

Congratulations on your purchase of a Magnum Energy NEMA-rated outdoor enclosure (MP-ODE) from Sensata Technologies. The MP-ODE is a weather-resistant, protective outdoor enclosure in which to install your Magnum inverter/charger system (e.g., inverter/charger, PT-100 controller, MMP enclosure, and remote control). This enclosure has gasket-lined openings that protect against falling rain, sleet, snow and external ice formation. This enclosure also has screened ventilation slots to prevent debris or pests from entering and to ensure adequate airflow, multiple knockouts to facilitate conduit installation for wire runs, and pre-drilled holes for securing it to a vertical surface.

Specifications

Enclosure: made of aluminum (0.125"), white powder-coated, with stainless steel fasteners

Unit weight: ~56 lbs (21 kg)

Shipping weight: 65 lbs (~24 kg) – shippable via UPS

Regulatory compliance: The MP-ODE has been listed by UL and certified to CSA as a Type 3R electronic cabinet box (Rhino Mfg Inc., Issue No. 0014888).

Installation



WARNING: Installations should be performed by qualified personnel, such as a licensed or certified electrician. It is the installer's responsibility to determine which safety codes apply and to ensure that all applicable installation requirements are followed. Applicable installation codes vary depending on the specific location and application of the installation.



WARNING: This enclosure must be mounted in an upright position. The mounting surface and hardware must be able to support at least three times the combined weight of all attached components.



WARNING: Ensure the MP-ODE enclosure and all exposed metal is electrically connected/bonded together and properly grounded.

Pre-Installation

Before proceeding, read these instructions carefully and review all diagrams. Ensure you have received the following items:

- MP-ODE enclosure
- MP-ODE Instruction Sheet
- Mounting hardware (for Magnum components):
 - ◇ 3/4" spacers (x8) – used with MMP enclosure and MSH-GT inverter
 - ◇ 1/4 - 20 Flange nuts (x8) – used to attach MMP enclosure and MSH-GT inverter
 - ◇ 13/16" spacers (x4) – used with PT-100 controller
 - ◇ 8 - 32 Flange nuts (x4) – used to attach PT-100 controller

Mounting

Once you have determined the mounting location for your MP-ODE, refer to the physical dimensions as shown in Figure 1. After marking the mounting screw locations, mount the enclosure using appropriate mounting hardware—which you must supply (see Figure 3 for information).

Figure 1 also shows the available conduit knockouts on the bottom and sides of the enclosure.

Figure 2 provides the box's inside dimensions, and shows a Magnum MSH-GT inverter, PT-100 charge controller, MMP panel, and an ME-ARC remote installed inside a MP-ODE enclosure.

Figure 3 shows how to attach Magnum components to the PEM studs inside the enclosure using the supplied hardware (see also Figure 2).

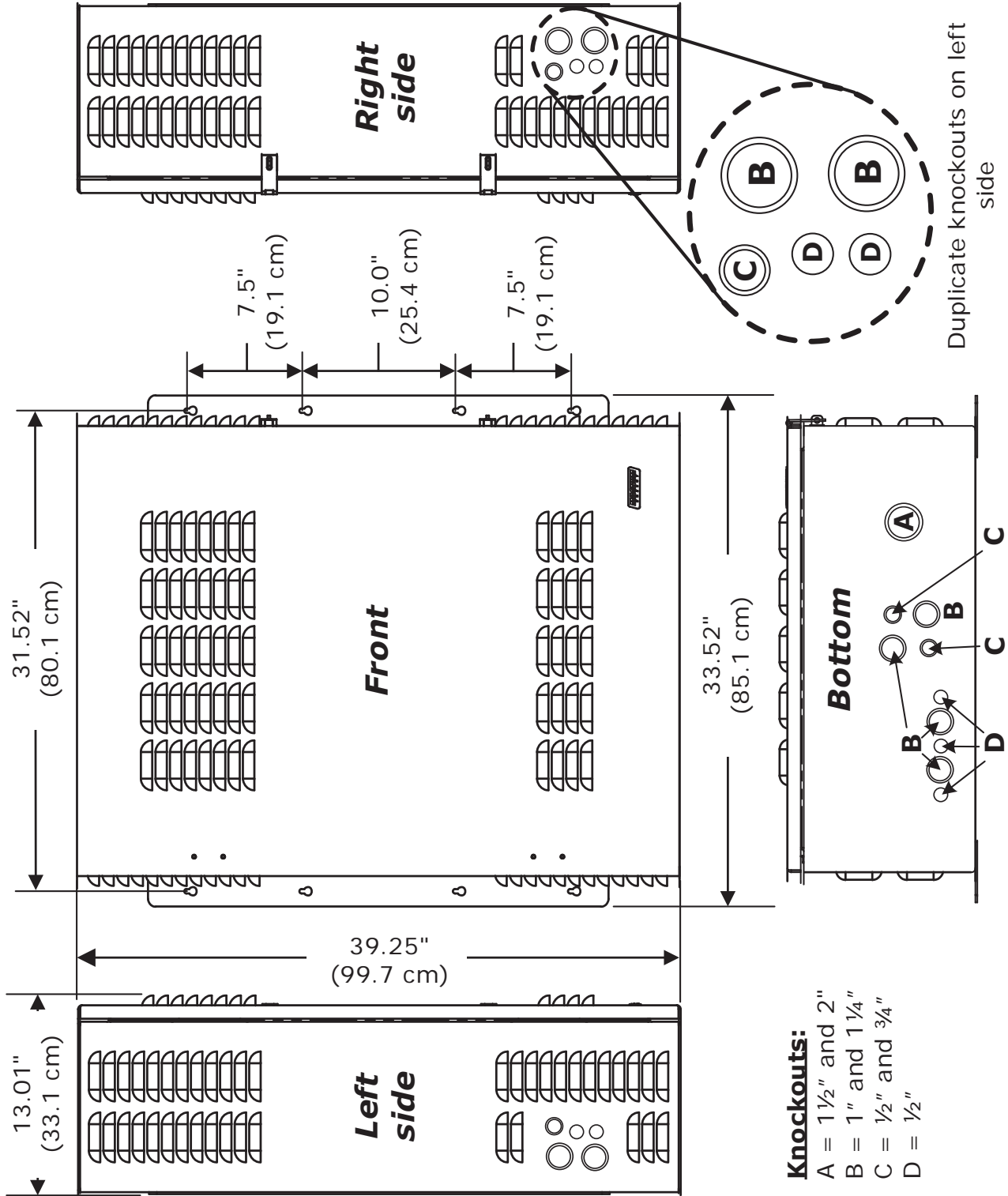


Figure 1, MP-ODE Enclosure (Outside Dimensions)

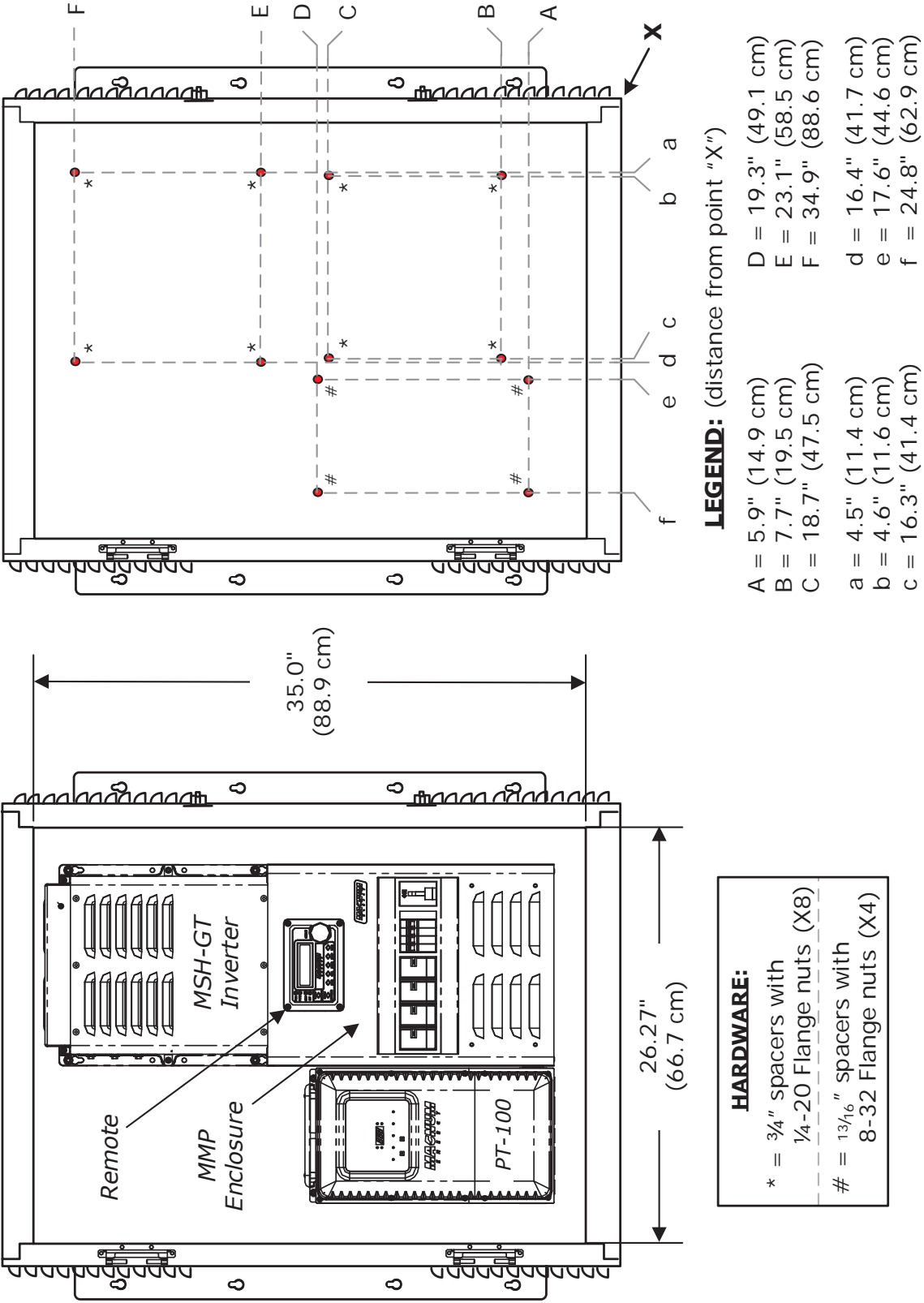


Figure 2, MP-ODE Enclosure (Inside Dimensions)

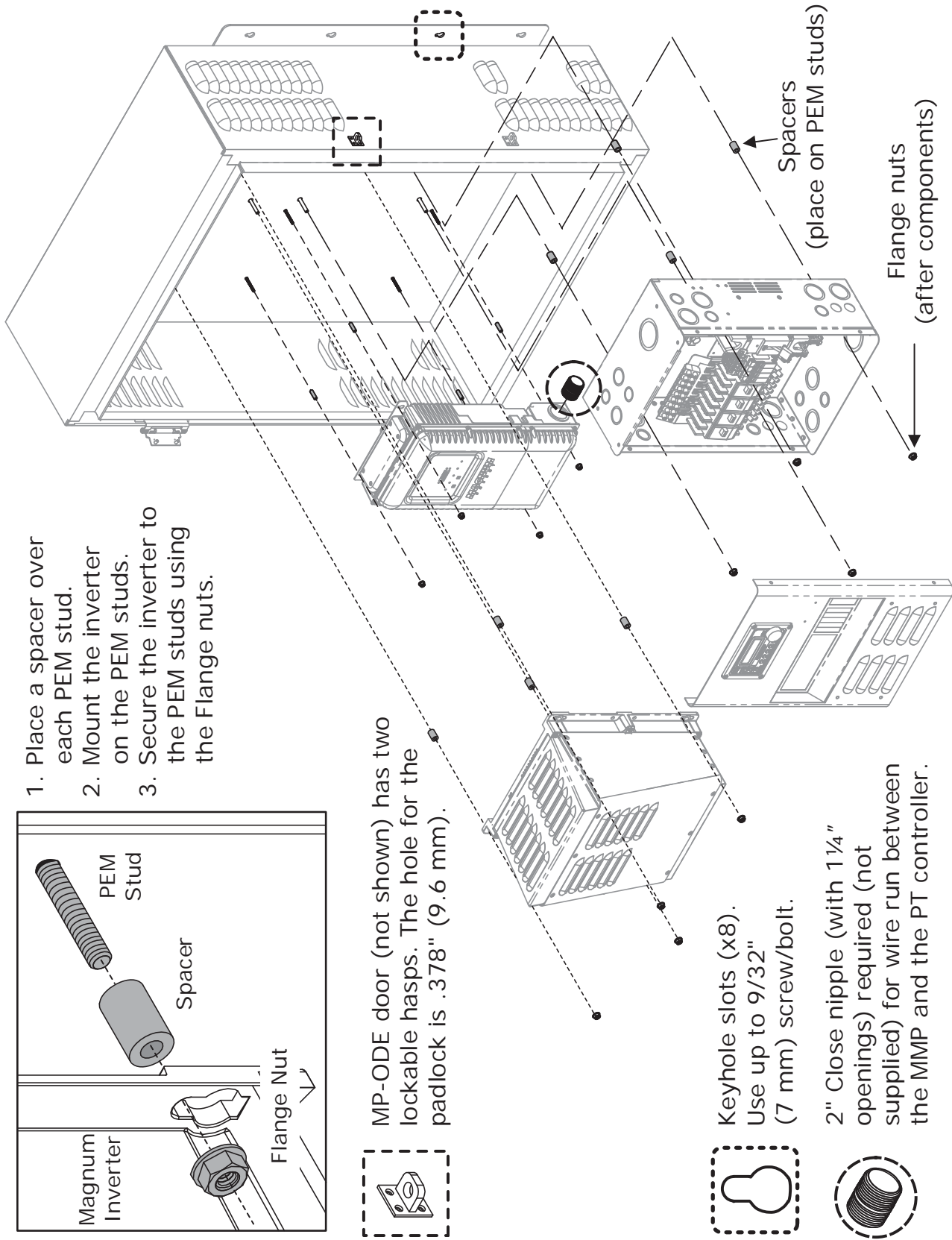


Figure 3, MP-ODE Enclosure (Component Installation)