

INSTALLATION GUIDE

VersiCharge™ 72" Post and Integrated Retraction Systems

For 40/48 A VersiCharge units (20 ft. cable)
usa.siemens.com/versicharge

May 2024



Index

Introduction - Recommended to use with VersiCharge 40/48 A models that are supplied with 20 ft. coupler cables	4
Safety Instructions	5
Single and Dual Post and Cable Management System for Siemens VersiCharge	6
Tools needed for installation	7
Supplied Parts	8
Concrete Pad, Power Feed, and Anchor Requirements for VersiCharge	9
Single/Dual Post and Cable System Installation	10
Single VersiCharge Mounting	12
Dual VersiCharge Mounting	13
Single/Dual Post and Cable System Base Plate Dimensions	14

Figures

Figure 1.1. Cable unwound	11
Figure 1.2. Charging cable midway point	11
Figure 1.3. Cable hovers above ground	11
Figure 2. 72" single post - front view	12
Figure 3. 72" single post - side view	12
Figure 4. 72" single post - back view	12
Figure 5. 72" dual post - front view	13
Figure 6. 72" dual post - side view	13
Figure 7. 72" dual post - back view	13
Figure 8. Base plate diagram	14

Introduction - Recommended to use with VersiCharge 40/48 A models that are supplied with 20 ft. coupler cables

Applications include any public or private residential or commercial area where Electric Vehicle (EV) charging is required. These sites include single and multi-family homes, places of business, commercial institutions, etc.

These instructions do not purport to cover all details or variations in equipment or to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Siemens sales office or Siemens Customer Service, available at 1-800-SIEMENS. The contents of this instruction manual shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.

NOTICE

Due to the weight of the post and assembly, more than one person is required to safely install both the single and dual posts.

NOTICE



This instruction outlines the recommended general procedure for installation by a qualified person, as defined by all local electrical codes and/or the NEC®.

PERMITS: Be aware that many areas require special permits and/or utility approvals to install EV charging equipment. Contact your local electrical inspector's office and your local utility prior to beginning work to understand local requirements.

WARRANTY: See Siemens' standard terms and conditions below with regards to warranty of purchase.
usa.siemens.com/versicharge

TOUCH-UP PAINT: See the link below for replacement paint, if needed for aesthetic restoration throughout the post's life: <https://www.lvppaints.com/RAL7035-Color-Plate.html>

Safety Instructions:

	<div style="background-color: red; color: white; padding: 5px; text-align: center;">  DANGER </div> <p>Hazardous Voltage. Will cause death or serious injury.</p> <p>Disconnect before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.</p>
---	---

	<div style="background-color: red; color: white; padding: 5px; text-align: center;">  DANGER </div> <p>Explosion hazard.</p> <p>This equipment has arcing or sparking parts that should not be exposed to flammable vapors. Use extreme caution and follow instructions carefully.</p>
---	---

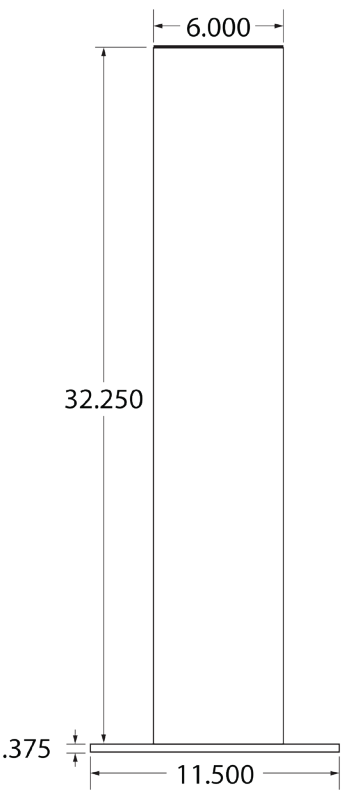
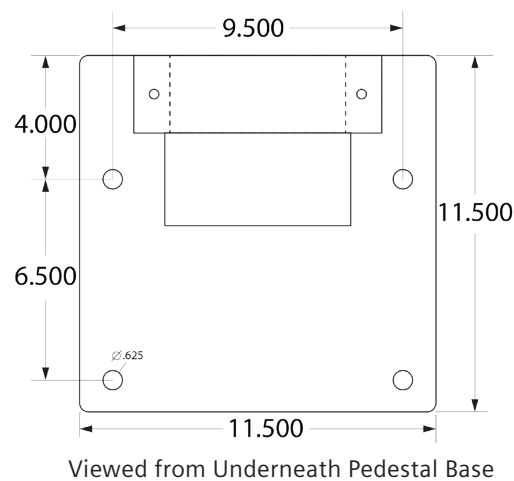
<div style="background-color: orange; color: white; padding: 5px; text-align: center;">  WARNING </div> <p>This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.</p>	
--	--

Single and Dual Post and Cable Management System for Siemens VersiCharge

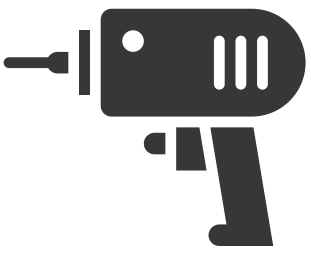



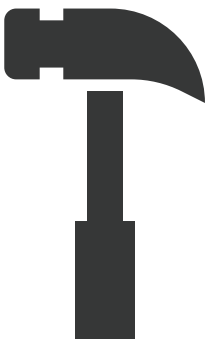


VersiCharge units sold separately

Features:

- Single or dual mount pedestal
- Siemens VersiCharge standard bolt pattern
- Aluminum pedestal post
- Aluminum pedestal base with 3" x 6" raceway
- Powder coated with primer undercoat for environmental durability
- Pedestal doubles as an electrical raceway



Tools needed for installation



			
Electric drill	Hex head screwdriver	Phillips head screwdriver	Flat head screwdriver
			
Hammer	Pencil	Tape measure	

NOTICE

Due to the weight of the post and assembly, more than one person is required to safely install both the single and dual posts.

Supplied Parts

			
1 – Pedestal base assembly (11.5" x 11.5" x 32.25")	1 – Retractor assembly (8.0" x 2.56" x 72.875")	1 – VersiCharge mounting bracket (for single or dual)	1 – 3" x 6" plastic end cap
			
1 – 3.625" x 16" front cover plate with 2 – 1/4-20 painted button head screws. (comes with dual unit only)	2 – 3/4" NM flex right-angle connector	3 – 3/4" NM flex straight through connector	14 – 10 – 32 x 1/2" machine button head screws with nuts
			
4 – Drop-in anchors	4 – Stainless anchor bolts with washers	1 – 1" conduit hole plug	4 – Conduit-reducing washers, 1" NPT to 3/4" NPT
			
2 – liquid-tight flex conduit, 3/4" X 12"	1 – liquid-tight flex conduit, 3/4" X 6"	1 – Tube of silicone with applicator tip	2 – Rubber spacers for cable clamps

	<div style="background-color: red; color: white; padding: 5px; text-align: center;">  DANGER </div> <p>Hazardous Voltage. Will cause death or serious injury.</p> <p>Please consider all safety warnings in the VersiCharge Installation and Operations Manual and refer to the Siemens web link (usa.siemens.com/versicharge) prior to wiring. Ensure the breaker is off during all electrical work.</p>
---	--

All pedestals shall be factory pre-drilled for installing one (1) or two (2) Siemens VersiCharge EVSE units (specify when ordering). The post product is compatible with all VersiCharge models. This post product is recommended to be used for VersiCharge 40/48 A models that are supplied with 20 ft. cables.

Installation height is regulated by NEC®; however, this can vary based on local jurisdiction. NEC® 2011 specifies: Outdoor (NEC® Article 625.30B) defines installation of VersiCharge as 24-48 inches above the grade (to any reach point). Use appropriate tools and hardware to fasten equipment (see details).

Concrete Pad, Power Feed and Anchor Requirements for VersiCharge

Provide an approved concrete or composite base with the top flush at ground level with 12" conduit stub-up centered. The base size should be a minimum of 18" x 18" x 18" and can be poured or pre-cast/pre-made. Installation of protective concrete-filled steel bollard posts and/or curb stops to protect the charger from an automobile strike is recommended. Using the provided drop-in anchors (with a concrete base), secure the pedestal to the base. If using a composite base, secure per the manufacturer's instructions.

There is an option to run the power supply and shielded communication wires underground, feeding through the bottom opening in the pedestal or (if the conduits are run above ground) the wires may be brought in through the sides of the post using the lower 1" holes on each side of the pedestal base. When using above ground conduits, use ¾" NPT fittings to enter through 1" holes in the lower section of the pedestal.

Feed-wire size shall be determined by a qualified electrician using industry standard calculations.

NOTICE

Communications wires must be shielded and suitable to be run by power wires or the power wires may cause interference. The power conduit shall be sized to provide three wires (L1, L2, GND) for each charger being mounted. Install the wires so they extend sufficiently above the ground for direct attachment to the EVSE (the charger). The communication conduit shall be ¾" to run one (or two) CAT 5/6 communication cable(s) to each VersiCharge charger.

Single/Dual Post and Cable System Installation

NOTICE

For more information on the post installation, see the demonstration video at:
usa.siemens.com/versicharge.

1. Remove assembly from the one (1) package. Remove the metal mounting bracket and hardware from its box and set aside.
2. Place the pedestal-base assembly onto the concrete mounting base. A minimum base size of 18" x 18" x 18" of reinforced concrete is recommended. Composite bases designed for EVSE installation are also an option.
3. Center the base plate over the conduit (if underground conduit is used) and mark the four mounting hole locations onto the base. Remove the pedestal assembly.
4. Drill mounting holes in the base.

NOTICE

The included drop-in anchors require a 5/8" hole.

5. Clean any debris from the holes and install drop-in anchors using the proper setting tool (not included).
6. Place the pedestal-base assembly onto the concrete base while completing (a) or (b) below. Bolt-down the pedestal base using the included drop-in anchors, making sure the base is level. Shim the base plate if necessary (shims not included).
 - a) If the conduit is stubbed up through the base from the underground routing, feed the power and communication wires through the opening in the base of the 3" x 6" raceway.
 - b) If the conduit is above ground, remove any hole plug(s) and connect the conduits to the lower 1" holes in the sides of the 3" x 6" raceway using 3/4" NPT connectors.

NOTICE

Power and communication cables must be run in separate conduits. If they are too close together, there will be interference that negatively affects communication.

7. Install the 3/4 NM Flex right-angle connectors onto the raceway (the O-Ring washer is optional). Use a torque of 75-80 in-lbs to tighten the nut that secures the NM flex connector (one for a single EVSE post and two for a dual EVSE post). Feed the power wires (L1, L2, and GND) through the NM connectors.
8. Feed the communication wires (Ethernet CAT 5/6 or Serial RS485 wire) through the included 3" x 6" top cap with the straight NM connector and 3/4" conduit supplied. Use a torque of 75-80 in-lbs to tighten the nut that secures the NM flex connector. Install the top cap onto the raceway and secure it using a thin bead of silicone adhesive (included).
9. Mount the aluminum (single or dual) VersiCharge mounting bracket onto the retractor post using four (4) 10 – 32 x 1/2" screws. Install (one or two) plastic mounting bracket(s) onto the metal bracket using the included 10 – 32 x 1/2" screws.
10. Place the Siemens VersiCharge charger(s) onto the plastic bracket(s). The bracket allows the VersiCharge to rotate/swing on the hinge during wire connection.
11. Remove the two access covers on the back of the charger(s). Attach the power wires (L1, L2, and GND), followed by the communication wires, per the *VersiCharge Installation and Operations Manual*. Once the wires are connected, reattach the access covers. Be sure to use a proper wire length to allow the charger(s) to close without pinching or obstruction.
12. Swing the charger(s) closed, making sure that the wires are NOT pinched. Install the Security Torx bolt included with the VersiCharge hardware.

13. Attaching the cable clamp to the charging cable:

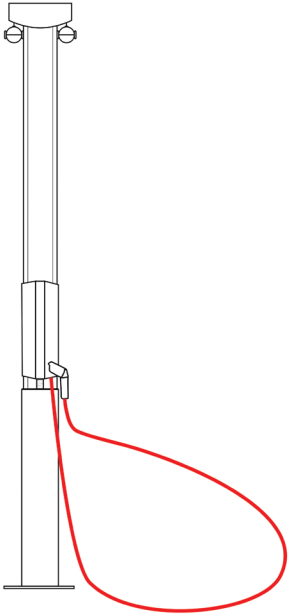


Figure 1.1 Cable unwound

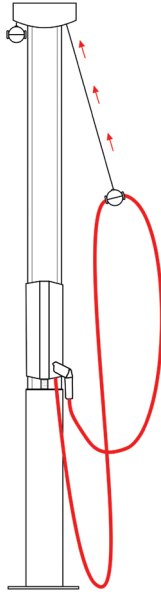


Figure 1.2 Charging cable midway point

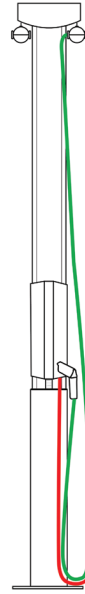


Figure 1.3 Cable hovers above ground

- A. Ensure the charging station is properly installed to the pedestal/retractor system.
- B. Remove the bottom half of the cable clamp by removing the two screws and set aside.
- C. Unravel the charging cable by removing any twists and holster the charging station connector to the connector dock. See Figure 1.1 (Cable unwound).
- D. Find the approximate midway point of the charging cable. Without tightening the screws all the way, loosely attach the cable clamp to the charging cable and retract to starting point. The cable should freely slide/move within the clamp. See Figure 1.2 (Charging cable midway point).
- E. Slide the cable positioning until you've achieved a loop from the charging station to the clamp:
 - Clamp to the charging station connector
 - Both loops should hover above the ground. See Figure 1.3 (Cable hovers above ground).
- F. Using the included rubber square, insert between the cable clamp and cable, creating a tight grip on the cable as you tighten the screws (electrical tape can also be used). The cable should not move within the clamp.



WARNING

Failure to properly secure the clamp to the charging cable may result in injury or damage to a person(s), charging cable, charging station unit and/or pedestal/retractor unit.

- G. For dual cable retractor systems, repeat steps 2-6 on the opposite side of the post.
14. Install the lower cable holder/holster supplied with the VersiCharge.
 15. For the dual post only: install the front cover plate with the two $\frac{1}{4}$ " – 20 x $\frac{1}{2}$ " machine button head Philips screws (without nuts).
 16. Turn on the power feed to the charging station(s) and test per the VersiCharge installation manual.

Single VersiCharge Mounting

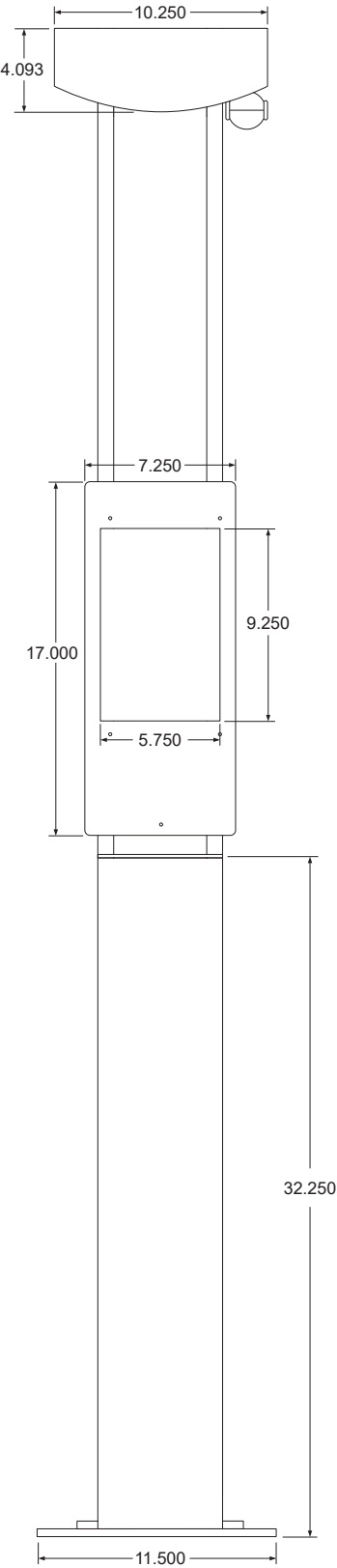


Figure 2. 72" single post - front view

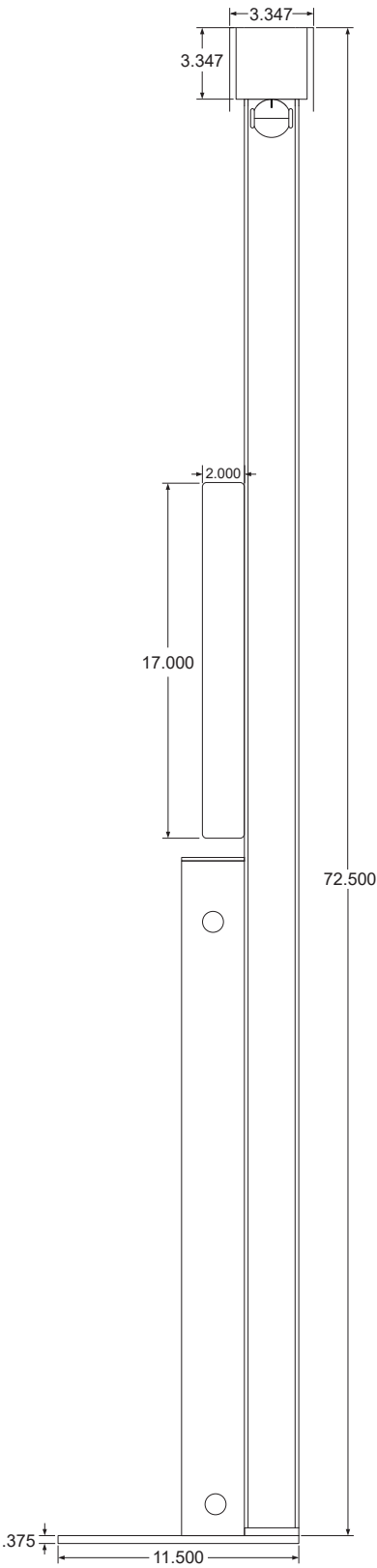


Figure 3. 72" single post - side view

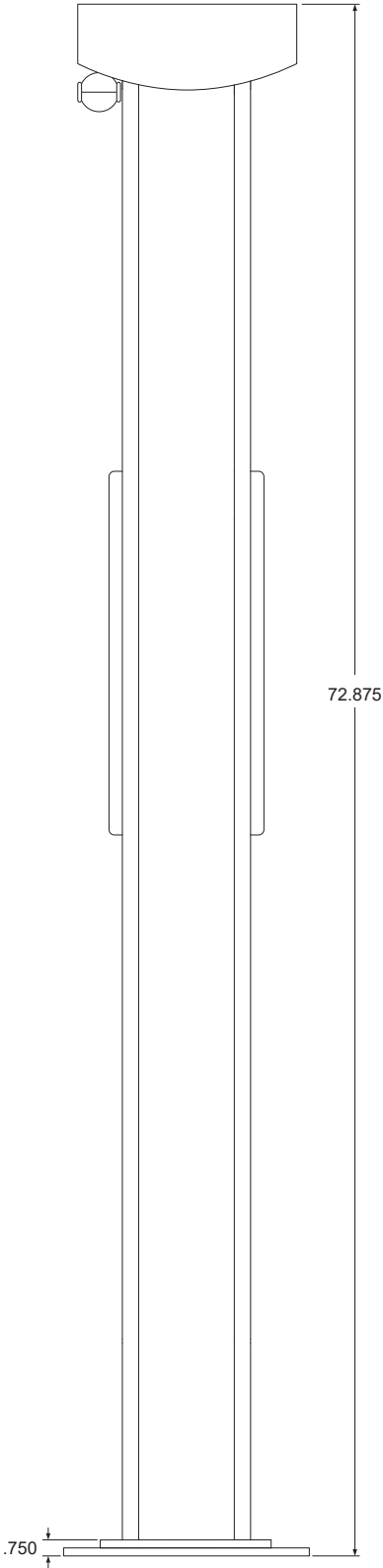


Figure 4. 72" single post - back view

Dual VersiCharge Mounting

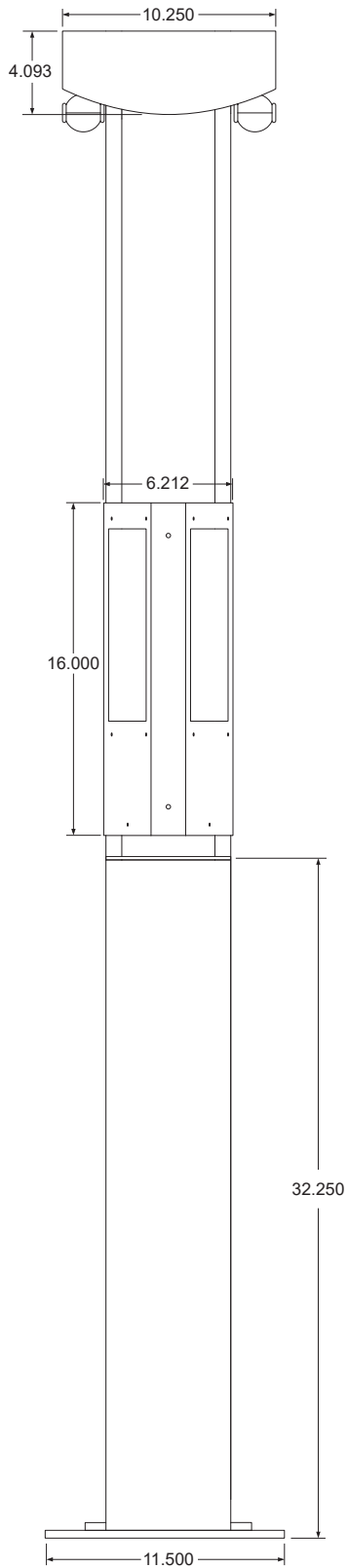


Figure 5. 72" dual post - front view

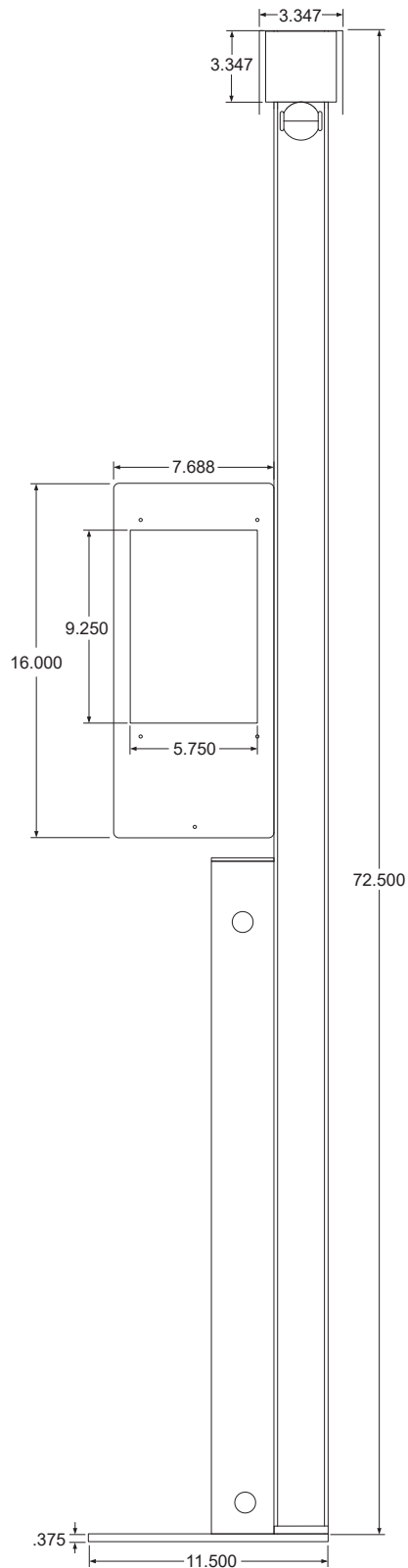


Figure 6. 72" dual post - side view

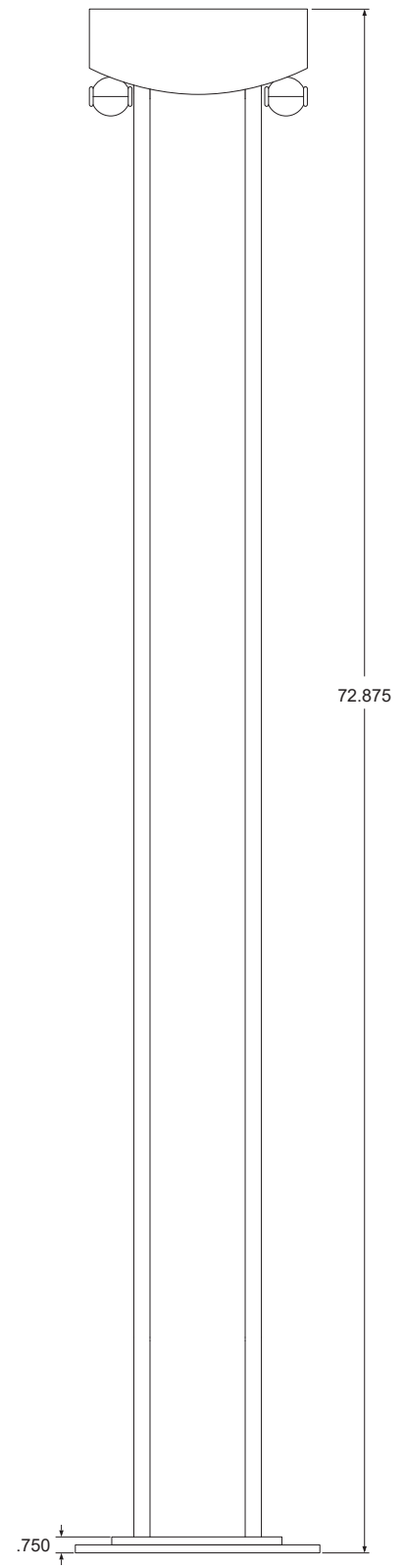


Figure 7. 72" dual post - back view

Single/Dual Post and Cable System Base Plate Dimensions

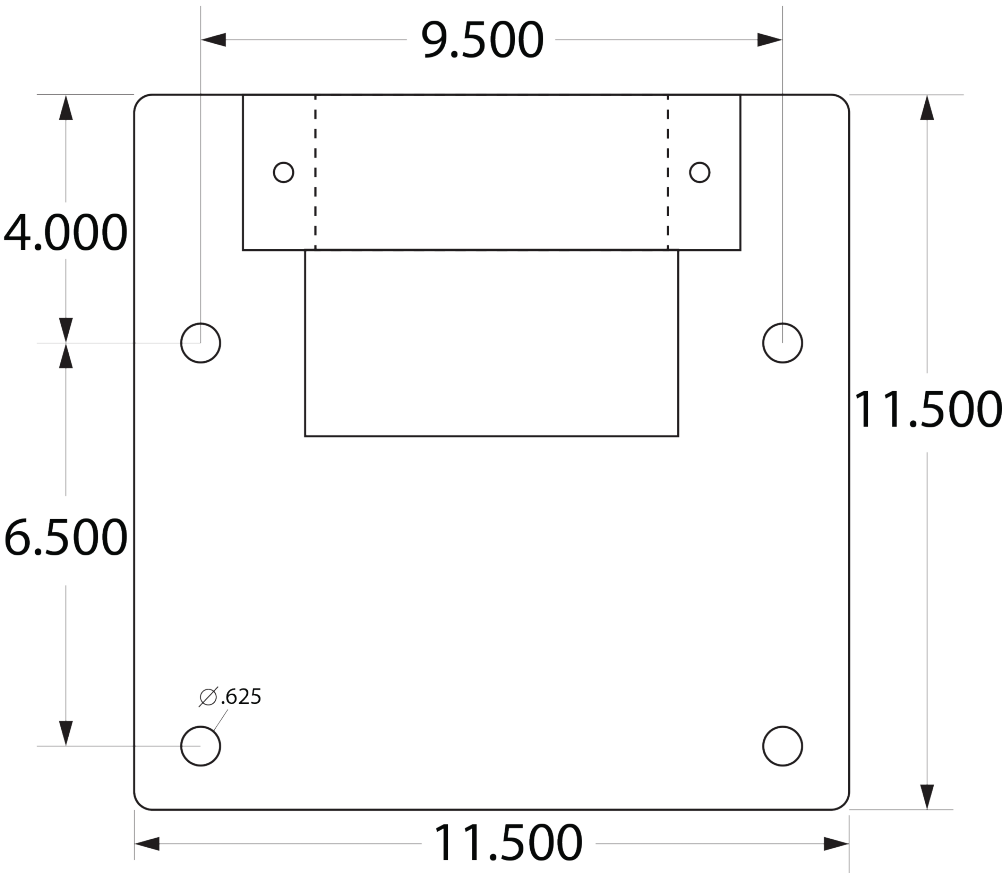


Figure 8. Base plate diagram

Notes:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Legal Manufacturer

Siemens Industry, Inc.
3617 Parkway Ln.
Peachtree Corners, GA 30092
United States of America

Telephone: (855) 950-6339, option 9, or visit
<https://sieops.my.site.com/eMobilityCloud> for
service.questions or inquiries

Engineering Doc No: R818071- R01
Article No. SIE-T40020-00-4AUS

This document contains a general description of available technical options only and its effectiveness will be subject to specific variables, including field conditions and project parameters. Siemens does not make representations, warranties, or assurances as to the accuracy or completeness of the content contained herein. Siemens reserves the right to modify the technology and product specifications in its sole discretion without advance notice.