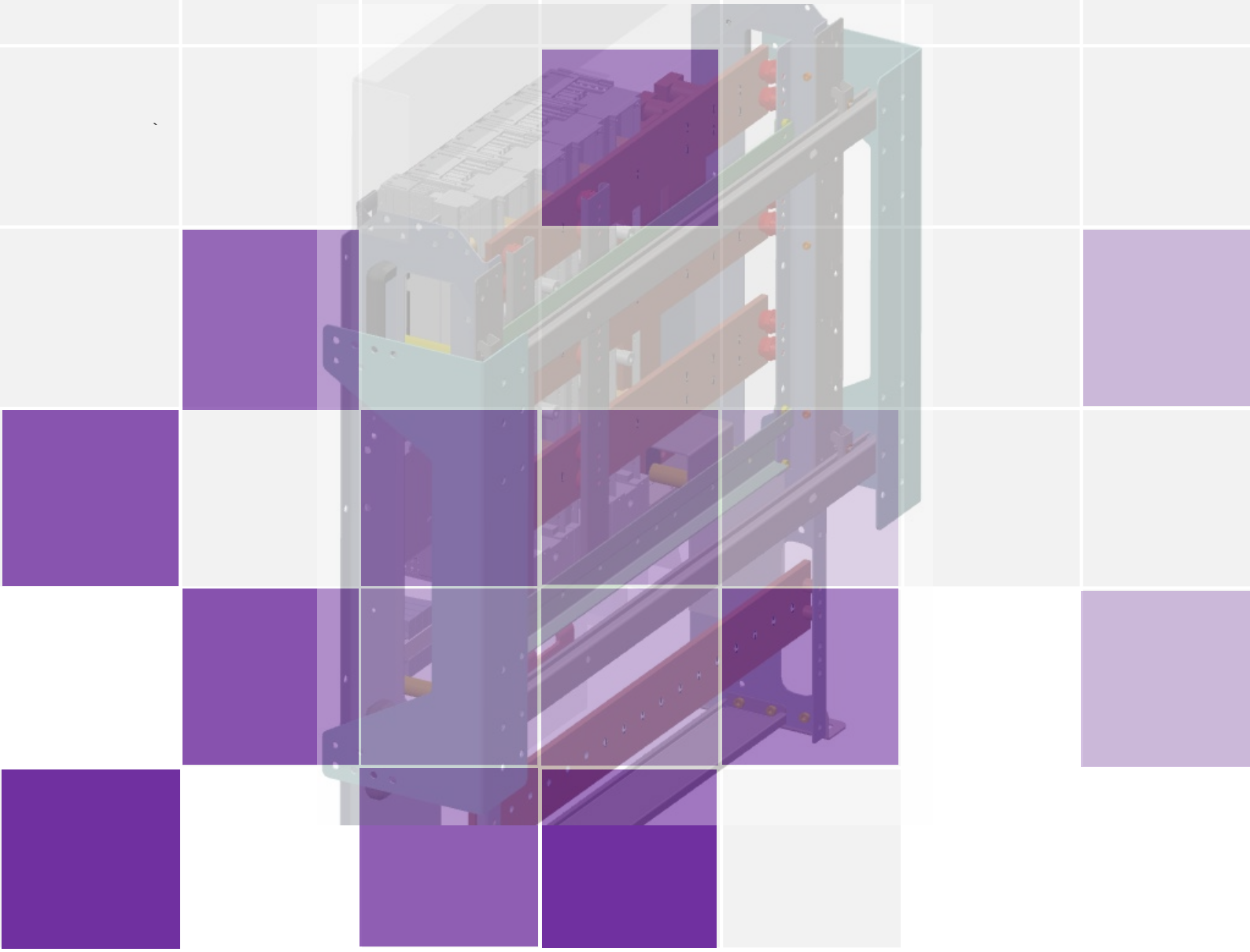


Hiko® Power Engineering

CUSTOMER INSTALLATION INSTRUCTIONS

Reliability by Design.

IN0154 (R3) LV Frame Side Mount Installation Instructions

12 Jun 2026

Customer Installation Instructions

1 Purpose

The purpose of this document is to provide guidelines for the installation of the Side Mount LV Frames. This includes square leg and universal side mount LV frame to be installed on either ETEL Minipad or Citypad Cubicle.

In addition to these instructions, installation must comply with any other relevant general or site specific: regulations, standards, and environmental and safety requirements, including safe work practices, as specified in local and/or national work instructions or codes.

2 Scope

This instruction is for qualified and competent installers of the LV frame product.

The Side Mount LV frame supplied consists of:

- Complete LV frame partly assembled.
- Mounting components.
- Fasteners for mounting the LV frame.
- Cables (supplied if requested).

3 Important Safety Information

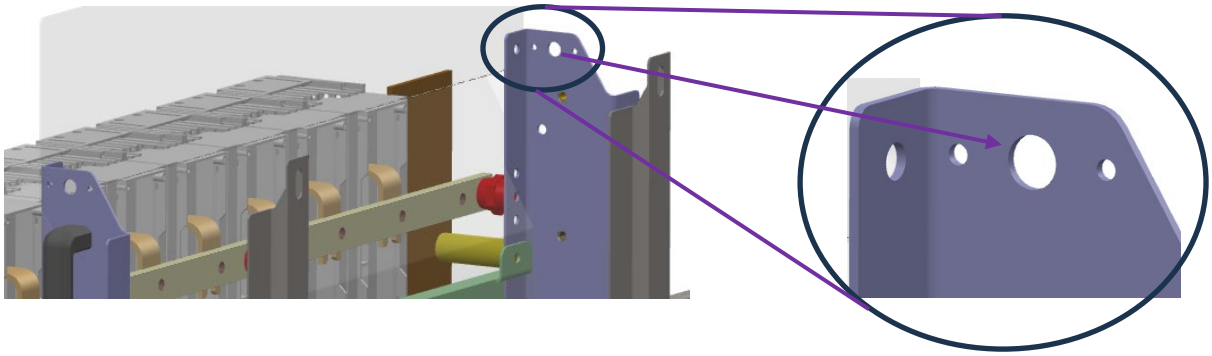
- Wear appropriate personal protective equipment.
- Ensure all electrical components are isolated before making connections. Do not work on energised system.
- Complete a risk assessment prior to commencing site work.
- Adhere to this instruction for the installation of the Side Mount LV Frame.

4 LV Information for Handling

Upon unboxing, inspect the product for damage prior to installation. The LV frame includes lifting eyes and handles for ease of handling and transport. Note that the LV frame may be unstable when unbolted from the pallet.

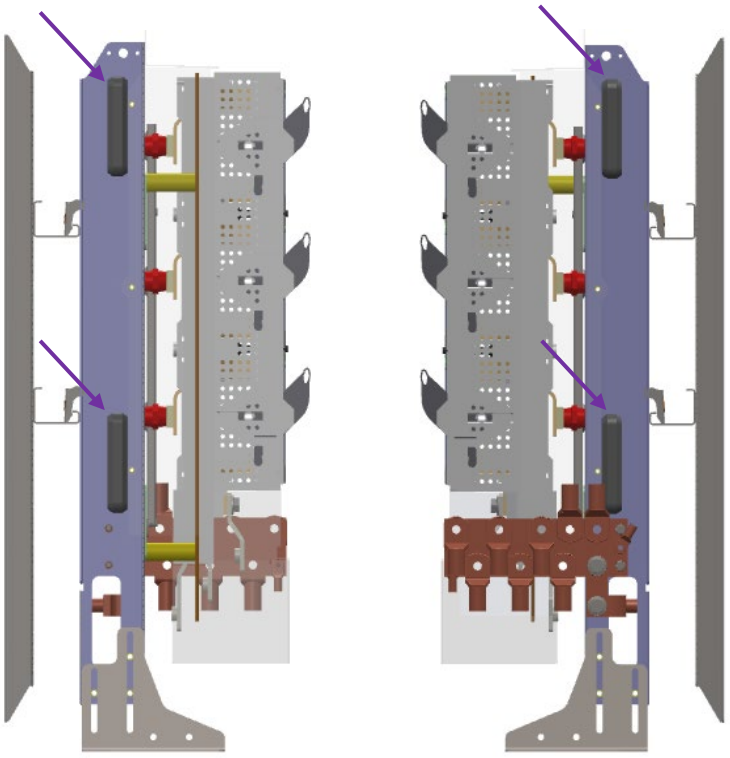
Lifting Eye

A 13mm hole located on top of each leg intended to be used in conjunction with up to a 12mm Dee-shackle. The Dee-shackles must have a minimum working load limit of 500kg (0.5 Tonnes). It is required to use a spreader bar to safely lift the LV frame for transport.

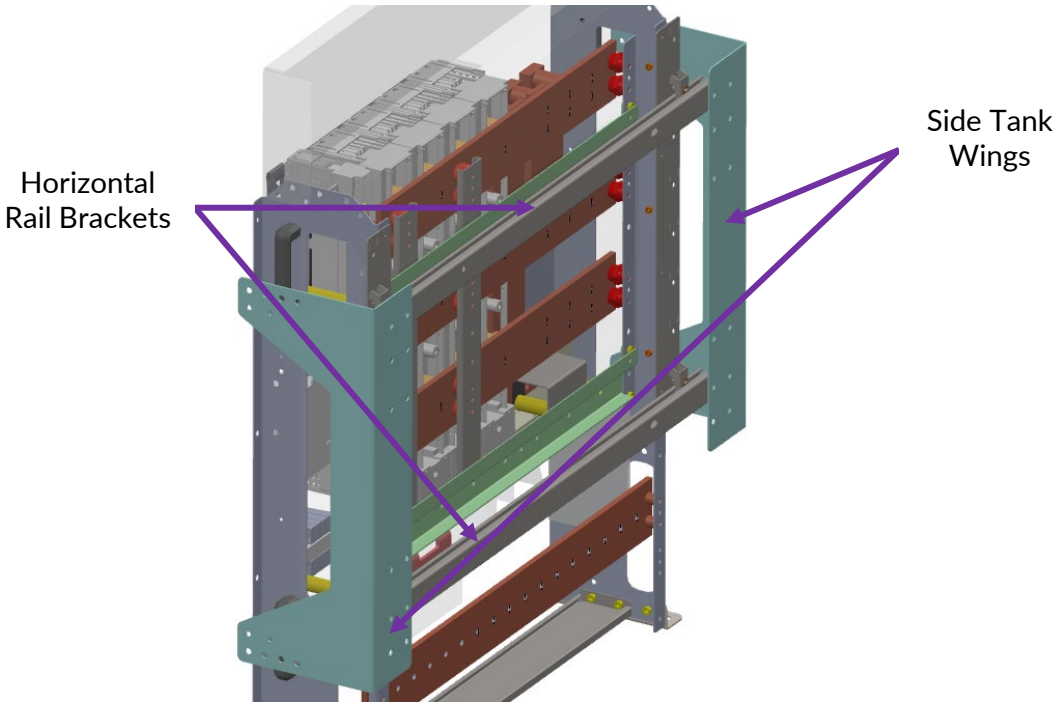


Carrying Handles

Each LV frame is fitted with two carrying handles on either side of the frames for ease of handling.



5 LV Frame Installation



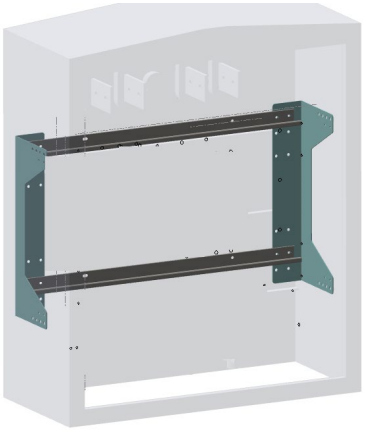
Socket Sizes for Bolts Used

M8 Bolt	M10 Bolt	M12 Bolt
13mm socket	17mm socket	19mm socket

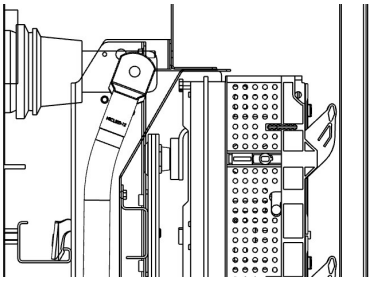
1. Install the Side mount wings to the side walls of the Transformer cubicle using the M10x16 bolts with spring and flat washers.

   An additional flat washer may be used if the bolt is too long.

2. Install the horizontal rails onto the side mount wings using the M8x20 bolts with spring and flat washers.

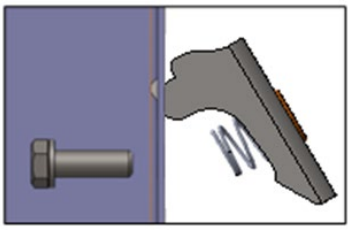


3. Connect the cables to the bushings and orient the lugs towards the rail to avoid pushing onto the rear cover when the frame is installed.



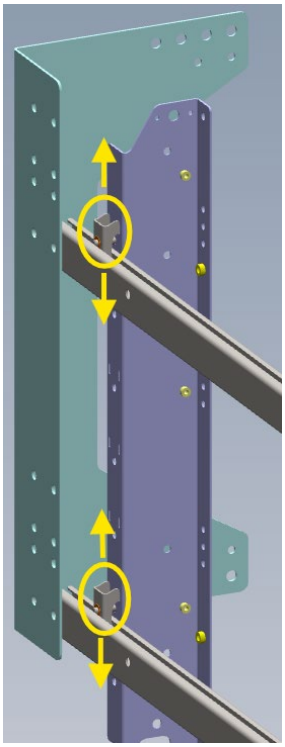
4. If the LV frame comes with bushing cover, remove it temporarily for ease of installation. Retain these screws for later.

5. The mounting clip should be positioned to suit the transformer height. If a different height is required, move the clips up or down where a free slot is available.



   a. Remove the M8 bolt and rotate the Clip until it is free of the Leg slot.

Note: there's a spring that goes onto the clip to support latching onto the leg.
The clip will still latch onto the rail if the spring is accidentally removed.



   b. Where a slot is available, move the clips up or down as required and place back into the slot, in the reverse order of the removal procedure.

Note: Always maintain the default gap between the two mounting clips.

Customer Installation Instructions

6. Lift the LV frame using the handles and hook onto the horizontal rails as shown.

   Tighten the four M8 mounting clips. The maximum torque of 10Nm should not be exceeded.

   It is recommended to avoid using impact driver as it could exceed the 10Nm maximum torque

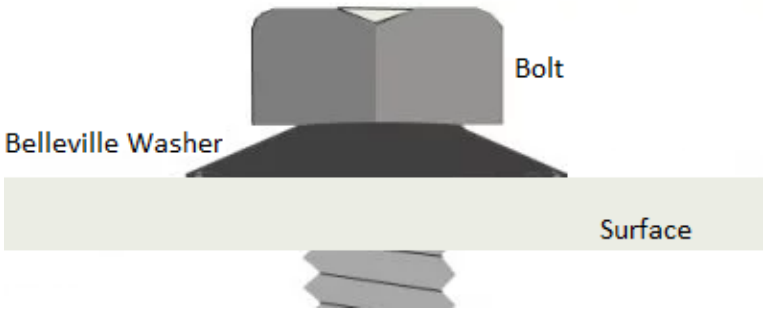
7. Refit the bushing cover.

8. Connect the cables to the LV frame as required.

6 LV Disconnect Installation Summary

1. Disconnect bolts are required to be torqued in two key locations:
   a. Disconnect bolts fastening to the busbar.
   b. Outgoing terminal bolts of the disconnect with cable fitted. If no cable is fitted onto the outgoing terminal bolt, only finger tight is required.

Note: Ensure the Belleville washers are installed the right way around when re-fastening the bolts.



Customer Installation Instructions

2. Depending on the size of the disconnect and/or bolts, follow the torque requirements below.

Torque Requirement for Disconnect Bolts on the Busbar

DIN Size	Bolts Size	Torque (Nm)
DIN 2, 3	M12	40
DIN 00	M8	12

Torque Requirement for Outgoing Terminal Bolts of the Disconnect with Cable Fitted

DIN Size	Bolts Size	Torque (Nm)
DIN 2, 3	M12	40
DIN 00	M8	12

3. Spare way cover in place of a disconnect, shall be installed with a nylon bolt M12 x 30 mm.

7 LV Frame Spare Parts List

Click here for the UTMF Spare Parts & Accessories List.

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