

Low Voltage Distribution/Transformer Frames

Modular, precision built and custom built for pad mount or wall mount applications



Hiko Low Voltage switchgear frames for transformer and distribution applications are designed, engineered and built for safety and reliability to deliver value through the asset lifecycle.

Safety is embedded into Hiko LV switchgear frames through:

- fully insulated busbars
- generously-sized high temperature rated polycarbonate transparent covers
- latest generation Weber / EFEN vertical fuse-switch disconnects (and optional circuit breakers and other arc-flash mitigating treatments)
- integral CTs, high voltage CT wiring and fully rated CT test blocks.

Safe operating performance and long-term reliability are assured by our design methodology that includes mechanical, electrical and thermal modeling and

testing, and our manufacturing process in line with the requirements of AS/NZS3439.1

A modular range of precision built pad-mount frames is available, using laser-cut stainless steel structural components and accommodating a wide range of sizes and configurations. Precisely engineered design is combined with light weight construction to support ease of installation. Complementing the modular range is an almost unlimited variety of custom design built welded, galvanised frames for pad mount and wall mount applications.

Auxiliary panels are available for all frames to suit customer requirements. These can be fitted pre-wired with analogue or digital metering, MDIs, street-lighting and hot water pilot wire connections and LV network monitoring systems.

Hiko LV switchgear frames are fully modelled in 3D to simplify, speed up and deliver certainty through the design-in process. One-off frames can also be produced for trial-fit purposes.

LV Switchgear Frames

Materials

Component	Material	Comments
Frame	Stainless steel 304 or 316	Hot dip galvanised frames also available
Fixings	Stainless steel 304	
Protective covers	Polycarbonate (transparent), PVC (grey)	For accidental flashover protection
Busbar heat-shrink	Polyolefin	For accidental flashover protection

Standard configurations: pad-mounted, bolted frames, Type LVF

Rating (kVA)	Busbar size (mm)	N/E bar size ¹ (mm)	Bushing cable cross section ¹ (mm ²)	Earth cable cross-section ¹ (mm ²)	Incoming isolator (A)
100-300	30 x 10	38.1 x 6.35	185	95	630
500	50 x 10		2x 150	185	1000
750	80 x 10	50 x 10	2x 240	240	1600
1000	100 x 10	80 x 10	3x 240	2x 240	2000

Standard dimensions: pad-mounted, bolted frames, Type LVF

Frame width (mm)	Service panel width (mm)	Max number of feeders ²		Height ³ (mm)
		With service panel	Without service panel	
600	195	4	6	985 / 1135 / 1500
700		5	7	
800		6	8	
900		7	9	
1000		8	10	
1200		10	12	

A wide range of bespoke designs of welded, pad-mounted and wall-mounted frames is also available

Contact Hiko for information

Options

- DIN-style switchgear (Weber / EFEN or third party brand)
- Street lighting and other auxiliary supplies
- MDIs / metering / monitoring
- Other switchgear or controlgear

Notes

- Other cross sections available on request
- DIN2/3 fuse-switch-disconnects (max 630 A), pitch 100 mm; alternatively 2x DIN00 (max 160 A), pitch 50 mm
- 750 kVA, 1 MVA minimum height is 1135 mm

Other literature available on request

Test reports, drawings, installation instructions, O&M guidelines