Automation

Electrical cabinets for industrial automation up to 4000 A





Lafer. Around you

Automation

Electrical cabinets for industrial automation up to 3200 A

Strong and customized.

Designed and produced to meet all requirements of the industrial automation. They offer a wiring solution with a plate that can be inserted frontally or sideways. They can be equipped with sloping or linear Smart-Energy busbar system.

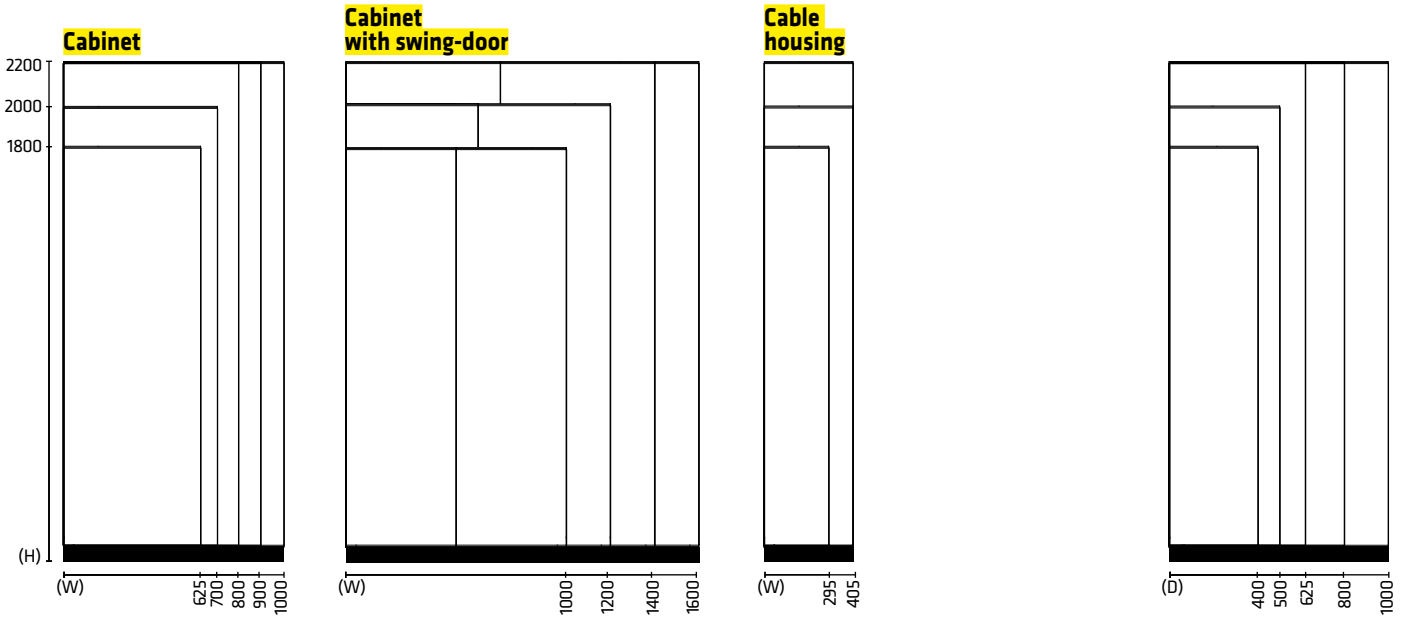
Main characteristics

- Assembled structure made of sheet with a thickness of 2 mm.
- Degree of protection from IP30 (open version) to IP55 with blind door or transparent door with toughened glass.
- Possibility of side connection.
- Installation of circuit breakers of all leading manufacturers (ABB, Schneider, Siemens, etc.).
- Epoxy powder coating after phosphating in RAL 7035 B (other colours on request).
- On request, stainless steel cabinet.
- Patented and certified earth connection system.
- Full range of internal finishing accessories to provide solutions for any requirement.
- Seismic test CESI no. B3020327 with acceleration 1,0g.

Automation Attic Power

- Arrangement for busbar system positioning under the roof of the cabinet. Equipped with a segregation conceived for an easy and fast connection.

Technical specifications
Automation **Standard**



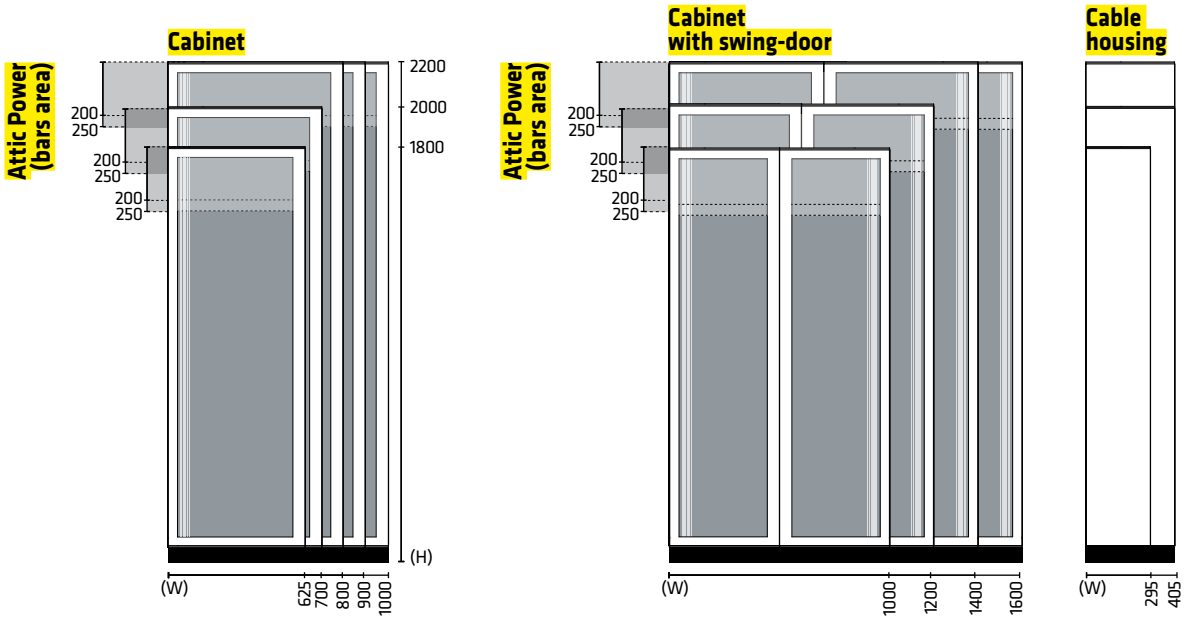
	Width (W) mm	Height (H) mm	Depth (D) mm
Cabinet	625	1800 / 2000 / 2200 (usable space = H - 200)	400 / 500 / 625 / 800 / 1000 (usable space = P - 100)
	700		
	800		
	900		
	1000		
Cabinet with swing-door	1000	1800 / 2000 / 2200 (usable space = H - 200)	400 / 500 / 625 / 800 / 1000 (usable space = P - 100)
	1200		
	1400		
	1600		
Cable housing	300	1800 / 2000 / 2200 (usable space = H - 200)	400 / 500 / 625 / 800 / 1000
	400		

Electrical data	Voltage ratings	Rated insulation voltage (U_i)	690 V
		Rated operational voltage (U_e)	400 V
		Rated impulse withstand voltage (U_{imp})	6 / 8 / 12 kV
		Rated frequency (f_n)	50 / 60 Hz
	Current ratings	Rated current (I_n)	Up to 3200 A
		Rated short-time withstand current for 1 sec. (I_{cw})	60 kA

Mechanical characteristics	IP degree of protection	Internal	Up to IP2X
		External enclosure	From IP30 to IP55
	IK test (shock resistance)	IK10 blind door	
	Access	From the front / Side / Rear	
	Execution	Form 1	
	Material	Structure	Pickled plate, 15/10 - 20/10 mm thick
		Accessories	Aluzinc® sheet steel, 15/10 - 20/10 mm - 25/10 mm thick
	Powder coating	Standard	RAL 7035 B light grey (orange peel)
		On request	Powder RAL colours and stainless steel
	Plastic components	Halogen-free, flame retardants, self-extinguishing, CFC-free	

All Lafer cabinets have been designed to be used in indoor environments. In case of outdoor applications, customers should require the supply of the specific rain canopy. Lafer shall not be held liable for any damage resulting from the non-observance of these guidelines.

Technical specifications
Automation **Attic Power**



	Width (W) mm	Height (H) mm	Depth (D) mm
Cabinet	625	1800 (200/250 bars positioning) 2000 (200/250 bars positioning) 2200 (200/250 bars positioning)	400 / 500 / 625 / 800 / 1000 (usable space = P - 100)
	700		
	800		
	900		
	1000		
Cabinet with swing-door	1000	1800 (200/250 bars positioning) 2000 (200/250 bars positioning) 2200 (200/250 bars positioning)	400 / 500 / 625 / 800 / 1000 (usable space = P - 100)
	1200		
	1400		
	1600		
Cable housing	300	1800 (200/250 bars positioning) 2000 (200/250 bars positioning) 2200 (200/250 bars positioning)	400 / 500 / 625 / 800 / 1000
	400		

Electrical data	Voltage ratings	Rated insulation voltage (U_i)	690 V
		Rated operational voltage (U_e)	400 V
		Rated impulse withstand voltage (U_{imp})	6 / 8 / 12 kV
		Rated frequency (f_n)	50 / 60 Hz
	Current ratings	Rated current (I_n)	Up to 4000 A
		Rated short-time withstand current for 1 sec. (I_{cw})	75 kA

Electrical data	IP degree of protection	Internal	Up to IP2X
		External enclosure	From IP30 to IP55
	IK test (shock resistance)	IK09 glazed door	
		IK10 blind door	
	Access	From the front / Side / Rear	
	Execution	Form 2	
	Material	Structure	Pickled plate, 15/10 - 20/10 mm thick
		Accessories	Aluzinc® sheet steel, 15/10 - 20/10 mm - 25/10 mm thick
	Plastic components	Standard	RAL 7035 B light grey (orange peel)
		On request	Powder RAL colours and stainless steel
	Plastic components	Halogen-free, flame retardants, self-extinguishing, CFC-free	

All Lafer cabinets have been designed to be used in indoor environments. In case of outdoor applications, customers should require the supply of the specific rain canopy. Lafer shall not be held liable for any damage resulting from the non-observance of these guidelines.

Standard

Cabinet: assembled structure made of sheet with a thickness of 2 mm with blind door.

Cabinet with swing-door: assembled structure made of sheet with a thickness of 2 mm.

Attic Power

IP30 Attic Power cabinet: structure prepared for the busbar system positioning under the roof of the cabinet, comprehensive of segregations and frontal blind door.

IP55 Attic Power cabinet: structure prepared for the busbar system positioning under the roof of the cabinet, comprehensive of segregations, frontal glass door and sheet inner door.

Busbar systems

Inclined or linear Smart-Energy basic: busbar system up to 1250 A.

Smart-Energy plus: busbar system up to 4000 A.

Smart-Energy copper busbar system: copper profile up to 4000 A.

Segregation: lexan segregation system divided into three sections, prepared for the passage of flexy bars or traditional systems.

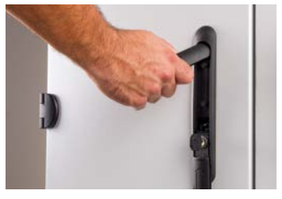
Details

Customization: it is possible to customize the carpentry with the customer's logo.

Swing-door closing: a system to align perfectly the two doors.

Latch door: a system to block the door with a 90° opening.

Locks: swivel handle and triangular lock on request.

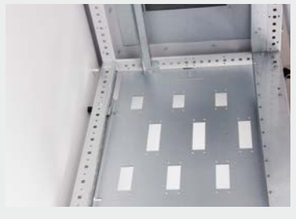


Wiring solutions

Frontal insertion: a new system with sliding on rails to facilitate the positioning of the wiring plate.

Side insertion: a new system that enables to use the whole width of the wiring plate.

Wiring plate: wiring plate placed at the back in order to use the whole depth of the cabinet.



Customized plate: wiring plate with holes realized depending on the type of circuit breakers and devices to install.

Internal supports: supports for heavy loads.