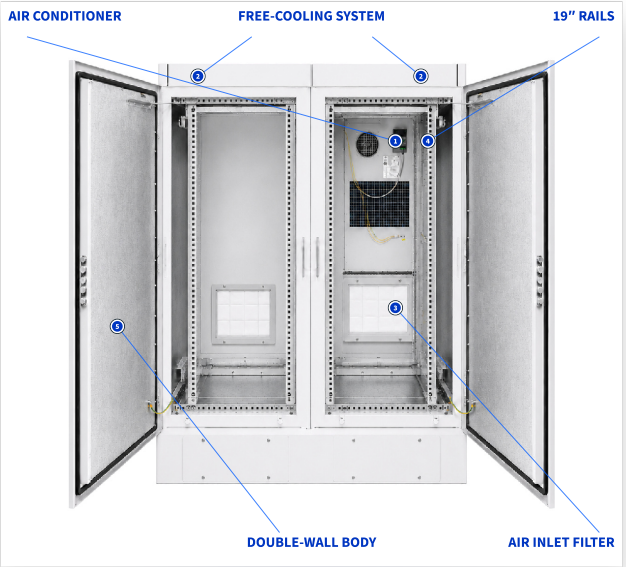
OUTDOOR ENCLOSURES

SN-LnX
Dual-Bay Air-Conditioned Series

Outdoor Floor-Standing Enclosure, IP54

SN-LnX Dual-Bay Air-Conditioned Series is a range of double-wall steel outdoor floor-standing enclosures for the installation and protection of 19-inch telecommunications equipment. Two separate equipment bays, each with independent front-and-rear door access, allow active and passive equipment to be organised separately within one enclosure. A closed-loop air-conditioning unit with an integrated heater keeps both bays within the required temperature range through ventilation openings in the internal partition, backed up by an independent roof-mounted free-cooling fan system and a filtered door air inlet.

Series	Dual-Bay Air-Conditioned Series
Models	SN-LnX-2-FS-WD-19-24U/30U/36U/42U-152-083-1C
Usable rack space	24U / 30U / 36U / 42U
Construction	Double-wall steel, A1 mineral-wool insulation, dual-bay
Access	Front and rear doors
Climate control	Closed-loop air conditioning + integrated heater + roof free-cooling ventilation
Mounting	Concrete foundation or support frame



24 / 30 / 36 / 42 U HEIGHT

1520 mm WIDTH

825 mm DEPTH

500 kg STATIC LOAD

IP54 PROTECTION

1 Key Features

Double-Wall Steel Construction
Inner and outer steel shells provide a robust insulated enclosure structure.

A1 Mineral-Wool Insulation
Non-combustible insulation reduces heat loss in cold weather and limits heating in summer.

Closed-Loop Air Conditioning
A single air-conditioning unit conditions both bays through ventilation openings in the internal partition.

Integrated Heater
The air-conditioning unit's integrated heater prevents excessive cooling in low ambient temperatures.

19" Mounting Rails
Each equipment bay has its own dedicated 19-inch mounting rails for standard rack equipment.

Roof Free-Cooling System
Roof-mounted fan modules use filtered outside air for energy-efficient cooling when ambient conditions allow.

Three-Point Locking System
Five-bolt lever lock with upper and lower locking rods secures the door at three points.

Independent Bay Access
Two separate equipment bays, each with independent front and rear door access.

TYPICAL APPLICATIONS

- Mobile Network Infrastructure
- Wireless Communication Systems
- Cable Television Networks
- Digital Transmission Networks
- Outdoor Telecommunications Nodes
- Remote Communication Sites

WHAT'S IN THE BOX

- 19" Mounting Rails
- Mounting Rail Support Brackets
- Electrical Control Panel
- Air-Conditioning Unit
- Cable Entry Panels
- Door Opening Sensors
- Roof Free-Cooling Module
- Floor Plinth
- Protective Steel Cover for Air Conditioner
- Grounding Busbar
- 4 key sets — one set for each lock
- Set of Eye Bolts — 4 pcs
- Technical Documentation

COMPATIBLE ACCESSORIES



Cable ring organizer | PDU | Shelf

CE | IP54 | EN 60529 | 2014/35/EU

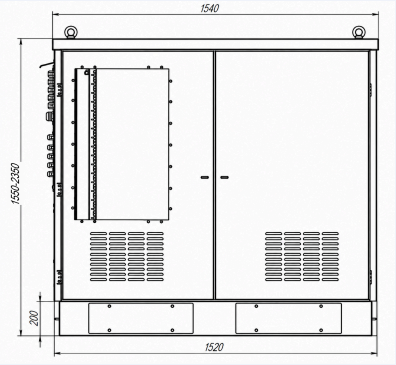
Powered by SteelNet

2 Size & Configuration Matrix

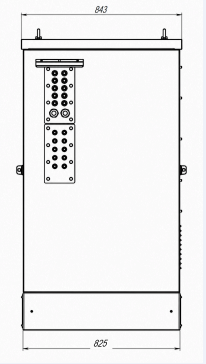
Model	Usable Rack Space (U)	Total Rack Capacity (U)	External Height (mm)	Cabinet Body Width (mm)	Cabinet Body Depth (mm)	Usable Mounting Depth (mm)	Net Weight (kg)
SN-LnX-2-FS-WD-19-24U-152-083-1C	24 U	24 U	1550 mm	1520 mm	825 mm	450 mm	415 kg
SN-LnX-2-FS-WD-19-30U-152-083-1C	30 U	30 U	1816 mm	1520 mm	825 mm	450 mm	437 kg
SN-LnX-2-FS-WD-19-36U-152-083-1C	36 U	36 U	2083 mm	1520 mm	825 mm	450 mm	459 kg
SN-LnX-2-FS-WD-19-42U-152-083-1C	42 U	42 U	2350 mm	1520 mm	825 mm	450 mm	481 kg

The roof and air-conditioning unit project beyond the cabinet body; overall dimensions including these external components are shown in the technical drawings.

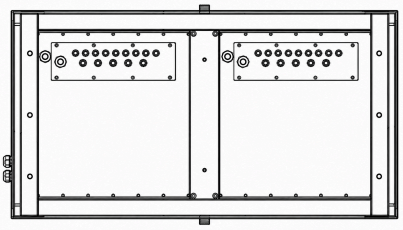
3 Technical Drawing



FRONT VIEW

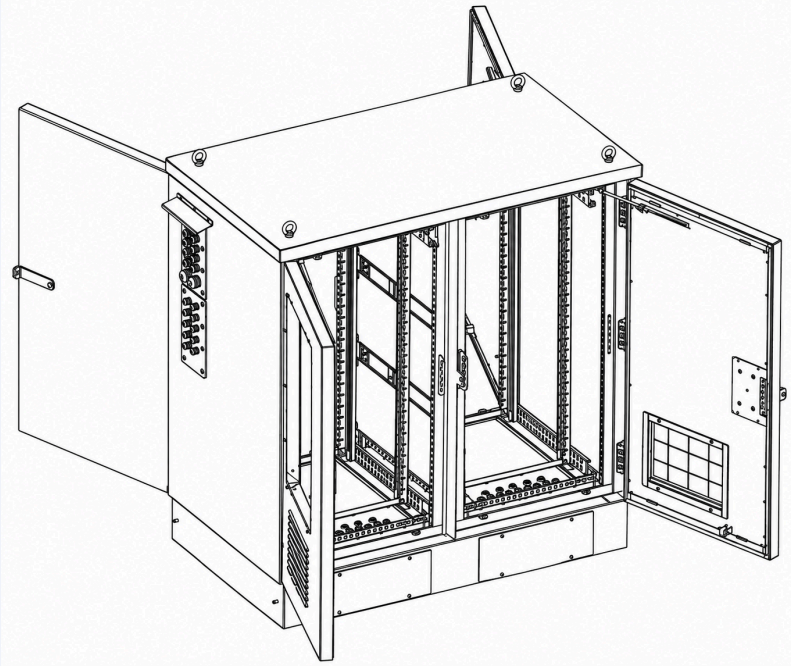


SIDE VIEW



TOP VIEW — ROOF REMOVED

The four views are generic for all four models; only the external height changes with the rack height.



GENERAL VIEW

4 Standard Equipment

Factory-Installed Equipment

Item	Specification	Qty
Air-Conditioning Unit	2000 W @ L35/L35, 230 V AC	1 pc
Protective Steel Cover for Air Conditioner	External steel cover for additional mechanical protection	1 pc
Free-Cooling Fans	48 V DC, 2 fans per equipment bay	4 pcs
Dust Filters	Removable, G4 class	2 pcs
Door Opening Sensors	Magnetic reed contact sensor	4 pcs
Base Cable Entry Panels	Each panel fitted with 15 cable glands: 9 × MG16, 5 × MG20, 1 × MG32	2 pcs
Side Cable Entry Panel 1	Fitted with 12 cable glands: 10 × MG20, 2 × MG32	1 pc
Side Cable Entry Panel 2	Fitted with 10 cable glands: 10 × MG16	1 pc
Electrical Control Panel	Side-mounted; does not occupy rack units	1 pc
Grounding Busbar	Copper grounding busbar with 6 connection points, mounted on 2 insulated supports	1 pc

Electrical Control Panel

Component	Specification	Qty
Circuit Breaker	3P, 32 A	1 pc
Circuit Breaker	1P, 16 A	1 pc
Residual Current Device	2P, 25 A, 30 mA	1 pc
Circuit Breaker	1P, 6 A	2 pcs
DIN-Rail Schuko Socket	16 A, 230 V AC	2 pcs
DIN-Rail Neutral Busbar	Insulated, 6 × 9 mm, 10 terminals	1 pc
DIN-Rail PE Busbar	Insulated, 6 × 9 mm, 10 terminals	1 pc

Air-Conditioning Unit — Technical Specifications

Parameter	Specification
Cooling Capacity	2000 W @ L35/L35
Cooling Capacity	1200 W @ L35/L55
Heater Power	1000 W
Internal Airflow	700 m^3/h
Air-Conditioning Power Supply	230 V AC, 50 Hz
Cooling Operating Range	−40…+55 °C
Protection Rating	IP55
Refrigerant	R134a

5 Optional Equipment & Systems

Group	Includes
Sensors & Monitoring	Flood sensors, smoke sensors, vibration sensors, monitoring systems
Safety Systems	Door status monitoring, alarm signalling devices
Power Distribution & Protection	Additional circuit breakers, surge protection modules, sockets, generator inlet connectors, PDUs, external metering enclosure
Backup Power	Power supply systems, batteries

6 Standards & Certification

- ✓ **2014/35/EU** — Low Voltage Directive
- ✓ **2014/30/EU** — Electromagnetic Compatibility Directive
- ✓ **EN 60529:1991/A2:2013/AC:2019-02** — Degrees of protection provided by enclosures (IP code)
- ✓ **EN 61439-1:2011** — Low-voltage switchgear and controlgear assemblies — general rules
- ✓ **EN 61439-3:2012/AC:2019-04** — Distribution boards intended to be operated by ordinary persons
- ✓ **EN 62368-1:2014/AC:2015** — Audio/video, information and communication technology equipment — safety

7 Colour & Ordering

RAL 7035
Light grey

ORDERING CODE PATTERN

`SN-LnX-2-FS-WD-19-[U]U-152-083-1C`

SN-LnX Series name · **2** Dual-bay construction · **FS** Floor-standing · **WD** Welded construction · **19** 19-inch rack standard · **152** Width code — 1520 mm · **083** Depth code — 825 mm body · **1C** One air-conditioning unit

[U] Rack height in rack units (usable space equals total capacity): 24, 30, 36, 42

EXAMPLE `SN-LnX-2-FS-WD-19-42U-152-083-1C`

= Dual-Bay Air-Conditioned Series outdoor floor-standing enclosure, 42 rack units, RAL 7035, IP54.

Width and depth are fixed at 1520 × 825 mm for all rack heights. There are no colour options.