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Deep Networks Group

DATA SHEET
DE-STD · SN-LnX · Rev. 2026

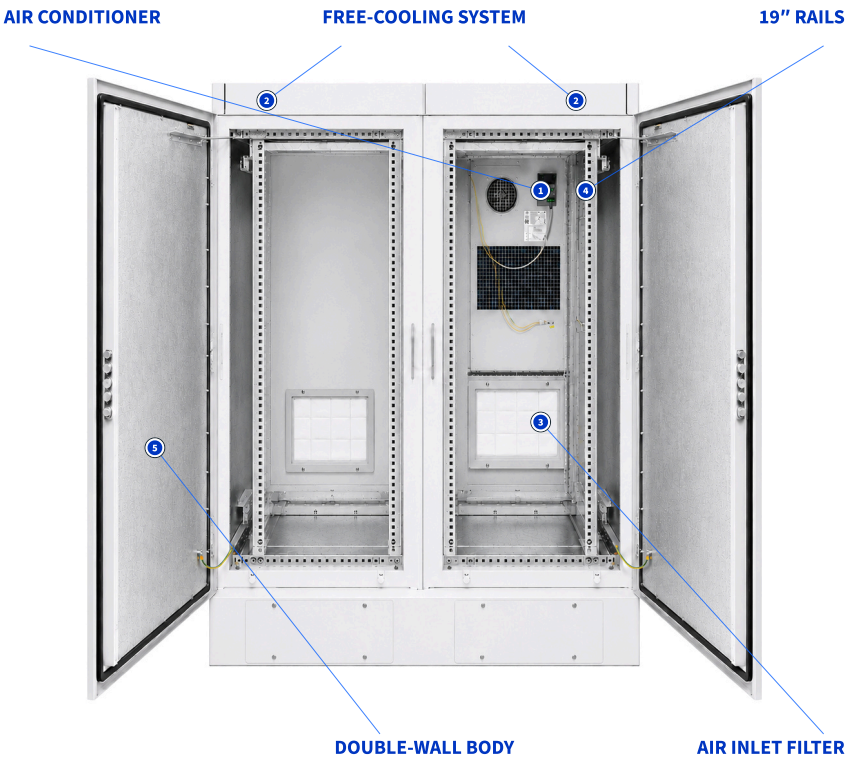
ON THIS PAGE

Overview
Key figures
Key features
Applications and contents
Size and configuration matrix
Technical drawings
Standard Equipment
Standards and certification
Colour and ordering

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 designed for the installation and protection of 19-inch

telecommunications equipment. The dual-bay construction provides two separate equipment compartments within a single enclosure, allowing independent organisation of installed equipment and functional systems — typically more demanding active equipment in the bay next to the air-conditioning unit, and lighter equipment or batteries in the other. The double-wall construction with non-combustible A1-class mineral-wool insulation reduces heat loss in cold weather and protects the enclosure interior from excessive heating in summer. Each equipment bay is equipped with dedicated 19-inch mounting rails for standard rack equipment installation. A closed-loop air-conditioning unit with an integrated heater maintains the required operating temperature in both bays through ventilation openings in the internal partition, backed up by an independent roof-mounted free-cooling fan system and a filtered door air inlet. Separate front and rear doors provide independent access to both equipment bays. The enclosure is equipped with a removable roof and a floor plinth for outdoor floor-standing installation.

AT A GLANCE

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**

NUMBERED DETAILS IN THE PHOTO

1. **Air Conditioner**
   A closed-loop air-conditioning unit maintains the required temperature inside the enclosure and protects installed equipment from overheating. Its indoor part is visible here through the open rear door.
2. **Roof Free-Cooling System**
   Fan modules installed under the roof support free cooling and help remove heat from the enclosure when ambient conditions allow — two fans above each equipment bay.
3. **Air Inlet Filter**
   A filtered air inlet in the door allows outside air to enter the enclosure while reducing dust ingress.
4. **19" Mounting Rails**
   Standard 19-inch mounting rails provide installation space for rack equipment.
5. **Double-Wall Body**
   Inner and outer steel shells form a robust enclosure structure and support thermal insulation.

1 Key figures

Height	**24 / 30 / 36 / 42** U
Width	**1520** mm
Depth	**825** mm
Static Load	**500** kg
Protection	**IP54**

2 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

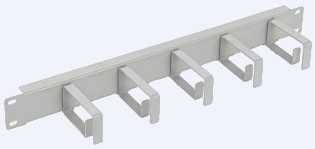
- Mobile Network Infrastructure
- Wireless Communication Systems
- Cable Television Networks
- Digital Transmission Networks
- Outdoor Telecommunications Nodes
- Remote Communication Sites

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

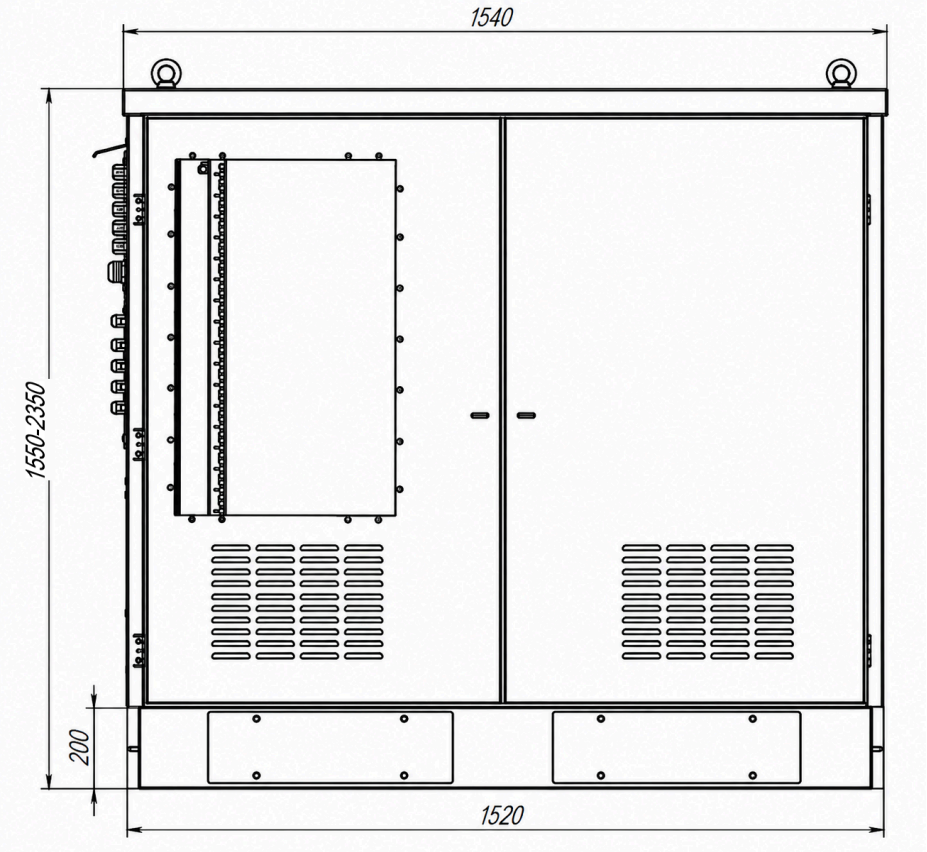
3 Size and configuration matrix

Rows list the four SN-LnX models. Columns give usable rack space, total rack capacity, external height, cabinet body width and depth, usable mounting depth, and net weight.

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

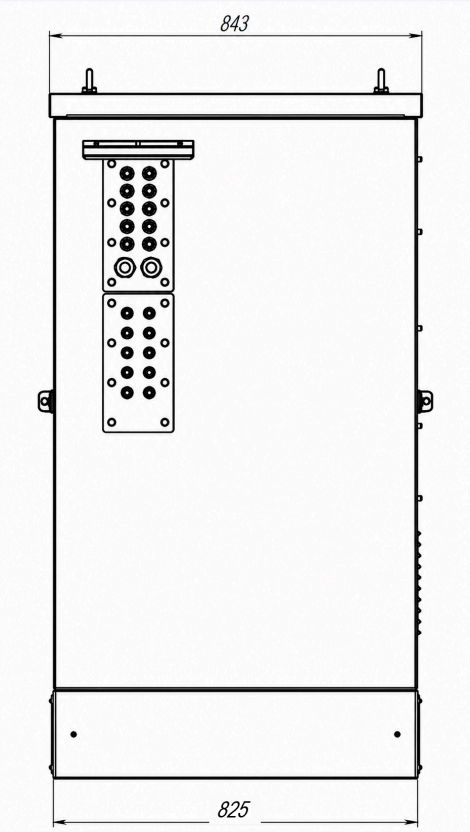
The roof and air-conditioning unit project beyond the cabinet body; overall dimensions including these external components are shown in the technical drawings.

4 Technical drawings



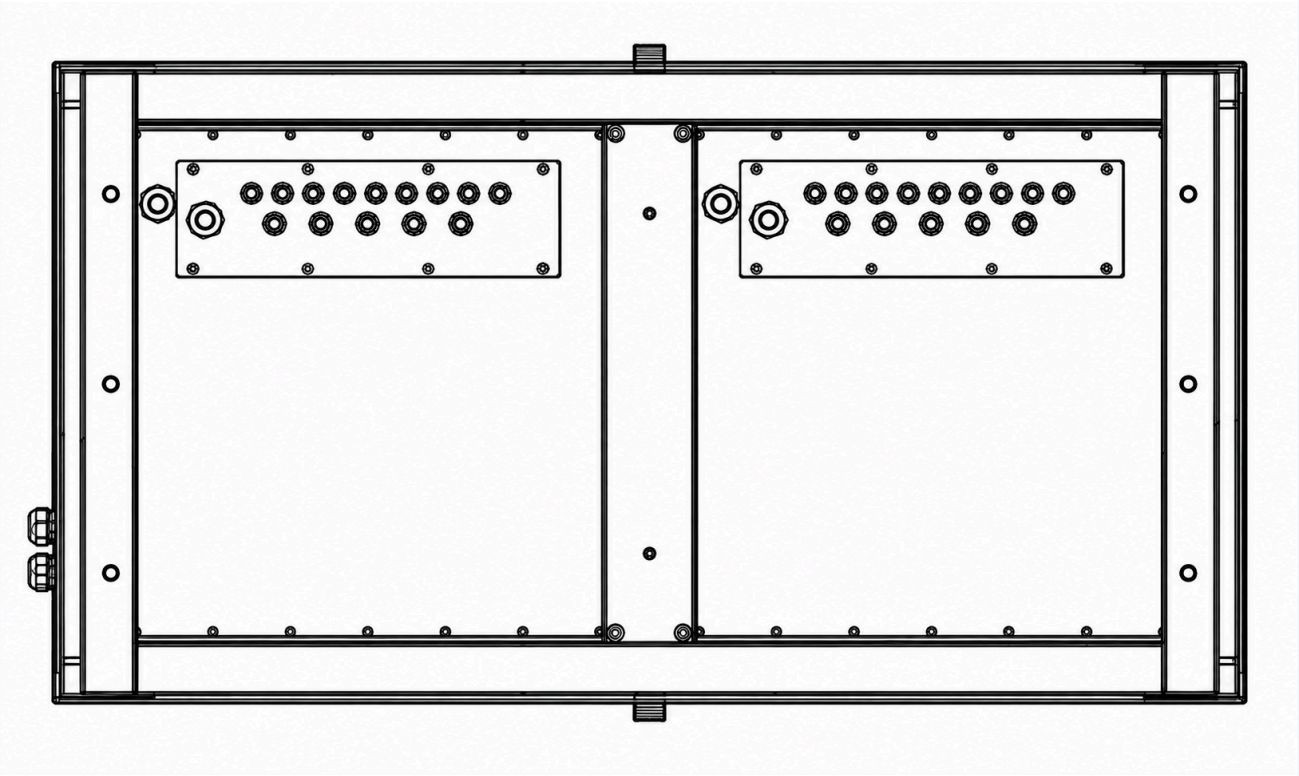
FRONT VIEW

Front elevation, generic for all models. Cabinet body width 1520 mm; overall width with roof overhang 1540 mm; plinth height 200 mm. External height ranges from 1550 mm (24U) to 2350 mm (42U). Two front door leaves, one per equipment bay.



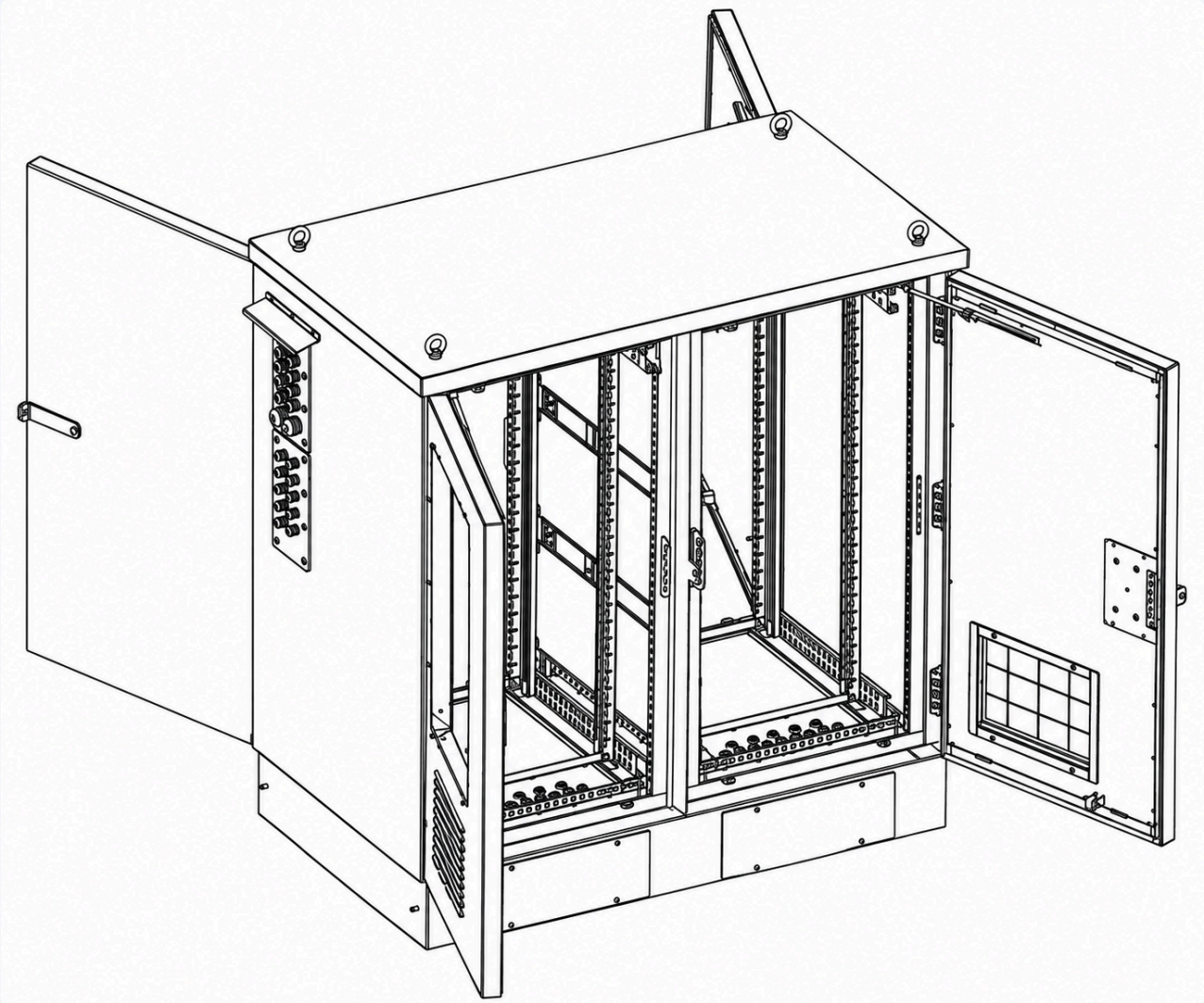
SIDE VIEW

Side elevation. Cabinet body depth 825 mm, constant across all four rack heights. Usable mounting depth 450 mm.



TOP VIEW — ROOF REMOVED

Top-down view with the roof removed, showing the two equipment bays side by side and the internal partition between them.



GENERAL VIEW

General isometric view of the assembled enclosure showing both front door leaves, the roof and the floor plinth.

5 Standard Equipment

Factory-installed equipment

Equipment fitted at the factory, with specification and quantity.

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

Item	Specification	Qty
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

Components of the factory-fitted 3U electrical control panel, with specification and quantity.

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

Technical specifications of the door-mounted air-conditioning unit.

Parameter	Specification
Cooling Capacity	2000 W @ L35/L35

Parameter	Specification
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

Optional equipment and systems

Optional equipment and systems available for this enclosure, grouped by function.

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 and 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 and ordering

Available finishes

RAL 7035
Light grey

Ordering code

`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

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

`152`
Width code — 1520 mm

`083`
Depth code — 825 mm body

`1C`
One air-conditioning unit

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.

CE | IP54 | EN 60529 | 2014/35/EU | Made in Europe

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