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DATA SHEET
DE-STD · SN-THERMA · 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-THERMA Air-Conditioned Series

Outdoor Floor-Standing Enclosure, IP55



SN-THERMA / SN-THERMA MAX 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 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. A door-mounted closed-loop climate unit —

compressor air conditioning with an air-to-air heat exchanger and an integrated heater — provides active temperature control without exchanging cabinet air with the environment. Front and rear doors provide convenient access to installed equipment. Two pairs of adjustable 19-inch mounting rails allow the mounting depth to be adapted to the installed equipment. The enclosure is equipped with a removable roof and a reinforced floor plinth. SN-THERMA MAX provides increased cabinet depth for installations requiring additional internal space.

AT A GLANCE

Series	**Air-Conditioned Series**
Models	**SN-THERMA-FS-WD-19-34U/38U/42U-083-083-1C** **SN-THERMA-MAX-FS-WD-19-34U/38U/42U-083-117-1C**
Usable rack space	**34U / 38U / 42U**
Construction	**Double-wall steel, A1 mineral-wool insulation**
Access	**Front and rear doors**
Climate control	**Closed-loop air conditioning + integrated heater**
Mounting	**Concrete foundation or support frame**

NUMBERED DETAILS IN THE PHOTO

1. **Air Conditioner**
   Door-mounted closed-loop climate unit with compressor cooling, an air-to-air heat exchanger and an integrated heater.
2. **19″ Mounting Rails**
   Two pairs of adjustable rails allow the mounting depth to match the installed equipment.
3. **Double-Wall Body**
   Double-wall steel construction with A1-class mineral-wool insulation.
4. **Removable Roof**
   The roof projects beyond the cabinet body and is supplied separately to reduce transit damage.
5. **Floor Plinth**
   Fixing holes in the plinth allow the enclosure to be secured to a concrete foundation using suitable anchors.

1 Key figures

Height
34 / 38 / 42 U

Width	**830** mm
Depth	**825 / 1175** mm
Static Load	**800** kg
Protection	**IP55**

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	Integrated air-conditioning system provides compressor cooling and free-cooling operation without direct exchange of cabinet air with the environment.
Integrated Heater	Heater integrated into the air-conditioning unit supports operation at low ambient temperatures.
19″ Mounting Rails	Two pairs of 19-inch mounting rails with depth adjustment in 25 mm increments.
Three-Point Locking System	Five-bolt lever lock with upper and lower locking rods secures the door at three points.
Floor Plinth with Fixing Holes	Fixing holes allow anchoring to a concrete foundation; removable access covers provide additional cable access through the plinth.
Front & Rear Access	Front and rear doors provide convenient access to installed equipment from both sides.

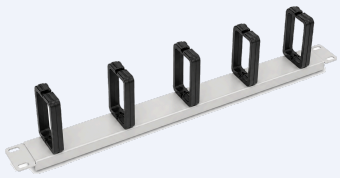
TYPICAL APPLICATIONS

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

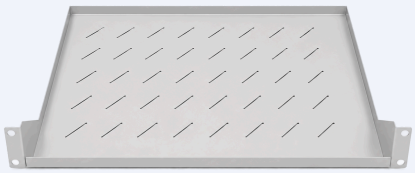
WHAT'S IN THE BOX

- 19″ Mounting Rails
- Mounting Rail Support Brackets
- Electrical Control Panel
- Air-Conditioning Unit
- Cable Entry Panels
- Door Opening Sensor
- Removable Roof
- Floor Plinth
- Protective Steel Cover for Air Conditioner
- Grounding Busbar
- 2 key sets — one set for each lock
- Set of Eye Bolts
- Technical Documentation

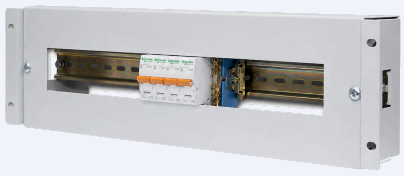
COMPATIBLE ACCESSORIES



Cable ring organizer



Shelf



3U Electrical Distribution Panel

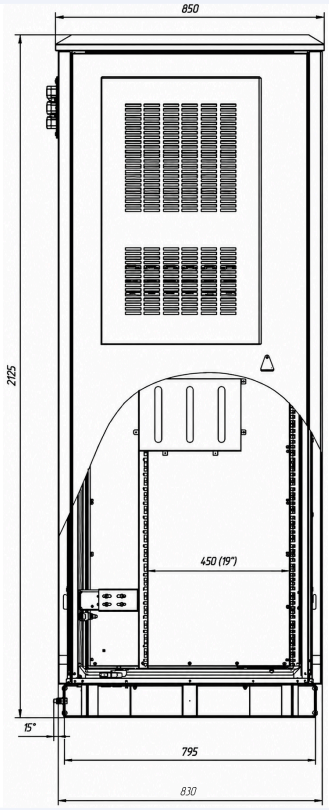
3 Size and configuration matrix

Rows list the six SN-THERMA and SN-THERMA MAX 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-THERMA-FS-WD-19-34U-083-083-1C	34 U	34 U	1769 mm	830 mm	825 mm	450 mm	270.0 kg
SN-THERMA-FS-WD-19-38U-083-083-1C	38 U	38 U	1947 mm	830 mm	825 mm	450 mm	278.0 kg
SN-THERMA-FS-WD-19-42U-083-083-1C	42 U	42 U	2125 mm	830 mm	825 mm	450 mm	286.0 kg
SN-THERMA-MAX-FS-WD-19-34U-083-117-1C	34 U	34 U	1769 mm	830 mm	1175 mm	800 mm	320.0 kg
SN-THERMA-MAX-FS-WD-19-38U-083-117-1C	38 U	38 U	1947 mm	830 mm	1175 mm	800 mm	328.0 kg
SN-THERMA-MAX-FS-WD-19-42U-083-117-1C	42 U	42 U	2125 mm	830 mm	1175 mm	800 mm	336.0 kg

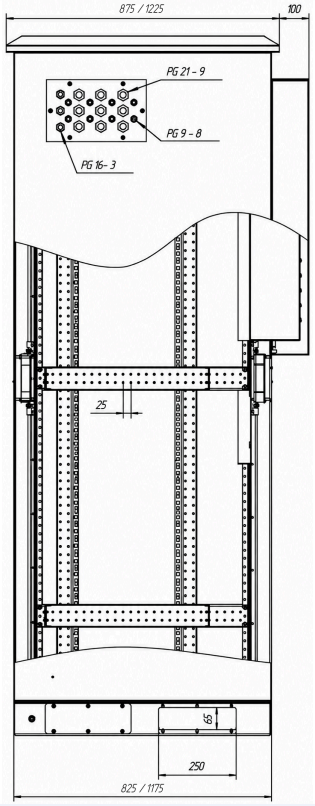
The removable roof and the door-mounted air conditioner project beyond the cabinet body; overall dimensions including these external components are shown in the technical drawings. Net weight includes the removable roof. The removable roof is supplied separately from the enclosure body to reduce the risk of damage during transportation.

4 Technical drawings



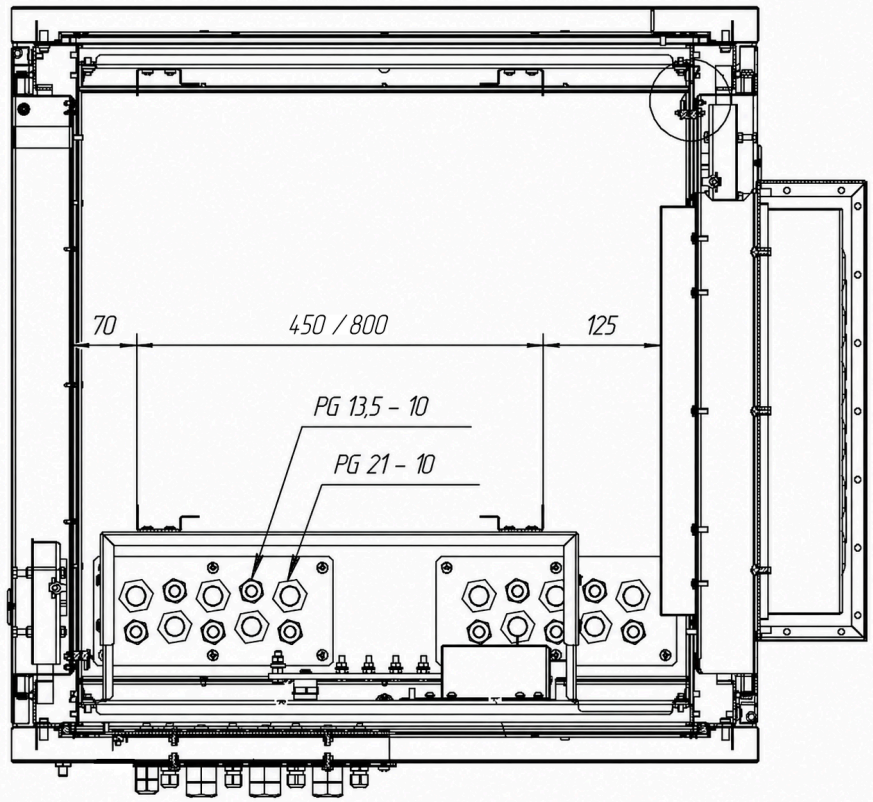
FRONT VIEW

Front elevation, generic for all models. Cabinet body width 830 mm; roof overhang width 850 mm; plinth width 795 mm; roof slope 15°. Rail spacing 450 mm (19-inch). Front and rear doors.



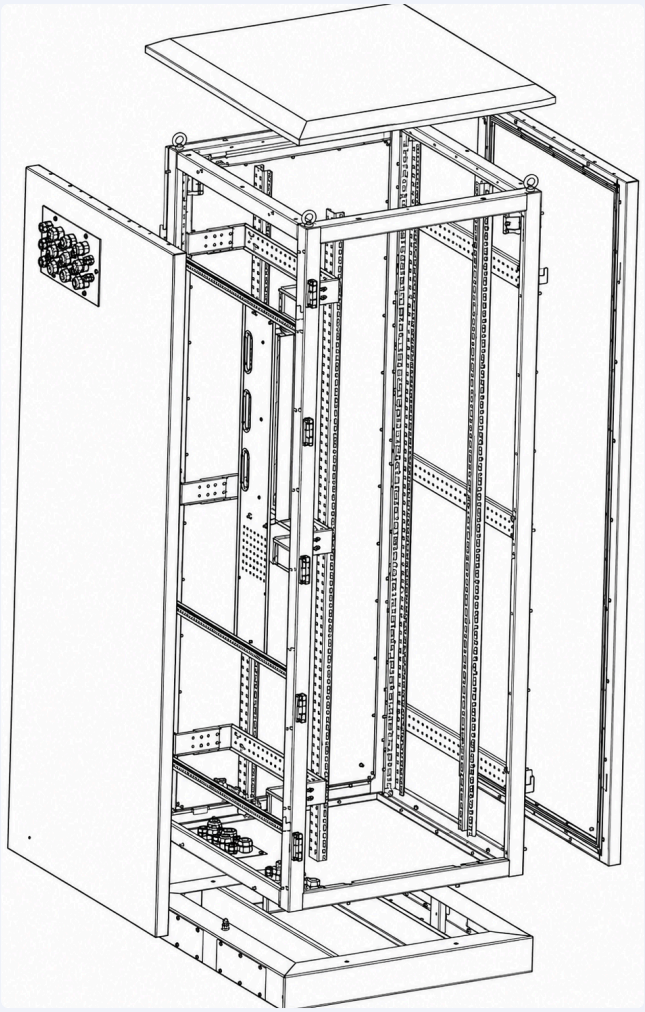
SIDE VIEW

Side elevation. Cabinet body depth 825 mm (SN-THERMA) or 1175 mm (SN-THERMA MAX); depth including the roof 875 / 1225 mm; the door air conditioner adds a further 100 mm. Rail depth adjustable in 25 mm steps. Base cable entry panel: PG16-3, PG9-8, PG21-9.



TOP VIEW — ROOF REMOVED

Top-down view with the removable roof lifted off, generic for all models, showing the base cable entry panel and the mounting-depth clearance. Base cable entry panel fitted with PG13.5 (10) and PG21 (10) glands. Usable mounting depth 450 mm (SN-THERMA) or 800 mm (SN-THERMA MAX), with 70 mm front and 125 mm rear clearance as marked.



GENERAL VIEW

General view with the removable roof lifted off, one side panel and the door removed. The frame, the two pairs of 19-inch mounting rails, the base cable entry panel and the floor plinth are visible.

5 Standard Equipment

Factory-installed equipment

Equipment fitted at the factory, with specification and quantity.

Item	Specification	Qty
Air-Conditioning Unit	1500 W @ L35/L35, 230 V AC	1 pc
Protective Steel Cover for Air Conditioner	External steel cover for additional mechanical protection of the air-conditioning unit	1 pc
Door Opening Sensors	Magnetic reed contact sensor	2 pcs
Side Cable Entry Panel	Fitted with 20 cable glands: 8 × PG9, 3 × PG16, 9 × PG21	1 pc

Item	Specification	Qty
Base Cable Entry Panels	Each panel fitted with 20 cable glands: 10 × PG13.5, 10 × PG21	2 pcs
Electrical Control Panel	Side-mounted; does not occupy rack units	1 pc
Document Pocket	Metal document pocket mounted on the inside of the door; suitable for A4 documents	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	1500 W @ L35/L35
Cooling Capacity	1100 W @ L35/L55
Heat Exchange Capacity	80 W/K
Heater Power	1000 W
Internal Airflow	450 m^3/h
Air-Conditioning Power Supply	230 V AC, 50 Hz

Parameter	Specification
Heat-Exchanger Power Supply	48 V DC
Cooling Operating Range	−15…+55 °C
Heat-Exchange External Temperature Range	−40…+55 °C
Communication Interface	RS485
Communication Protocol	Modbus RTU
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
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-THERMA[-MAX]-FS-WD-19-[U]U-083-[D]-1C

SN-THERMA

Series name

[-MAX]

Omit for SN-THERMA (825 mm body depth); include for SN-THERMA MAX (1175 mm body depth, 800 mm usable mounting depth)

FS

Floor-standing

WD

Welded construction

19

19-inch rack standard

[U]

Rack height in rack units (usable space equals total capacity) — 34, 38, 42

083

Width code — 830 mm

[D]

Depth code — 083 for SN-THERMA (825 mm body), 117 for SN-THERMA MAX (1175 mm body)

1C

One air-conditioning unit

EXAMPLE **SN-THERMA-MAX-FS-WD-19-42U-083-117-1C**

Air-Conditioned Series outdoor floor-standing enclosure, MAX depth (1175 mm body, 800 mm usable mounting depth), 42 rack units, one air-conditioning unit, RAL 7035, IP55.

Width is fixed at 830 mm; SN-THERMA MAX differs only in body depth and usable mounting depth. There are no colour options.

CE · IP55 · EN 60529 · 2014/35/EU · Made in Europe

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