



Test Laboratuvarları

LVT Test Laboratuvarları Ltd. Şti.

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AB-0341-T

23-2778-
R0-N1-1

11-23

DENEY RAPORU

Test Report

1/44

Müşteri

Client

: LANDE ENDÜSTRİYEL METAL ÜRÜNLERİ SAN. ve TİC. A.Ş.

Adres

Address

: 20. CAD. NO:14-16 26250 OSB / ODUNPAZARI / ESKİŞEHİR

İmalatçı

Manufacturer

: LANDE ENDÜSTRİYEL METAL ÜRÜNLERİ SAN. VE TİC. A.Ş.

Teklif Numarası

Order No

: 23-2778-R0

Deney Numunesi

Test Sample

: 19" SAFEBOX OUTDOOR CABINET 26U W600XD600mm
(LN-SBO-IP5526U6060-LG)

Marka

Trade Mark

: LANDE

Deney Metodu

Test Method

: IEC 60529:1989+AMD1:1999+AMD2:2013 CSV

Deney Tarihi

Date of Test

: 20.11.2023

Toplam Sayfa Sayısı

Total Number of Pages

: 44

Basım Tarihi

Date of Issue

: 29.11.2023

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Deney ve / veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (talep halinde) ve deney metodları, bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The test and / or measurements results, the uncertainties (if required) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür

Seal



Deney Sorumlusu

Person in Charge of Test

Furkan ŞAHİN

Bölüm Müdürü

Department Manager

Ata Gürül ARSLANLI



Rapor detaylarını karekod ile kontrol edebilirsiniz.

You can check the report details via QR code.

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FRT.30/Rev06/0622

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1. Numunelerin Tanımı
Definition of the Samples

19" SAFEBOX OUTDOOR CABINET 26U W600XD600mm

- 1.1 19" SAFEBOX OUTDOOR CABINET 26U W600XD600mm (23-2778-R0-N1)
- Numune Kabul Tarihi : 16.11.2023
Receiving Date
- Numune Seri No : LN-SBO-IP5526U6060-LG
Serial No
- Beyan Koruma Derecesi IP : 55 İç Kısımlar: -
Rated Degree of Protection Internal Part
- Numune Boyutları mm : 1334 x 600 x 600 (h x d x g)
Dimensions of the Sample
- Boya – Kaplama Özellikleri : Bk. Sayfa: 9 – 44
Paint – Coating Properties See Page
- Mahfaza Montaj Şekli : ☐ Cıvatalı ☒ Kaynaklı
Assembly Type of Enclosure Bolt on Welded
- Cihaz – Malzeme Listesi : Bk. Sayfa: 9 – 44
Device – Component List See Page

2. Deney Sonuçları
Test Results

Deney sonuçları, müşteri tarafından laboratuvara teslim edilen ve sadece deneyi yapılan numuneye aittir.
The test results only belong to the tested sample(s) delivered to the laboratory by client.

Numune Sample	Uygulanan Deney Applied Test	Sonuç Result
19" SAFEBOX OUTDOOR CABINET 26U W600XD600mm (LN-SBO-IP5526U6060-LG)	Degree of Protection of Assemblies (IP55)	PASSED

3. Çevre Şartları
Environmental Conditions

- 3.1 Ortam Sıcaklığı : (23,1 ±3) °C
Ambient Temperature
- 3.2 Ortam Nemi : (35,7 ±3) %Rh
Ambient Humidity

4. Deney Metodundan Sapma, Ekleme ve Çıkarmalar
Deviations, Additions & Cutbacks from the Test Method

: Deneyler; standart deney metoduna göre uygulanmıştır.
Tests were made according to the clauses of the relevant standards.

5. Şartnamelere Uygunluk (Gerekli Hallerde)
Conformity to Specifications (If Necessary)

: -

6. Dağıtım Bilgileri
Distribution Information

: LANDE ENDÜSTRİYEL METAL ÜRÜNLERİ SAN. VE TİC. A.Ş.

7. Açıklama
Explanation

: -

8. Ölçüm Belirsizliği
Uncertainty of Measurement

: -



Koruma Derecesinin Doğrulanması

Verification of Degree of Protection

Test Laboratuvarları

9. Deney Uygulamaları: Test Applications

9.1 Donanımların Koruma Derecesi (IP55) Degree of Protection of Assemblies

9.1.1 Tehlikeli Bölümlere Erişmeye ve Yabancı Katı Cisimlere Karşı Koruma Derecesi Degree of Protection Against Access to Hazardous Parts and Solid Foreign Objects

Standard Madde No: 13.4
Standard Sub-clause

Deney Tarihi
Test Date : 20.11.2023

Numune No
Sample No : 23-2778-R0-N1

Beyan Koruma Derecesi
Rated Degree of Protection : IP55

9.1.1.1 Tehlikeli Bölümlere Erişmeye Karşı Koruma Protection Against Access to Hazardous Parts

Açıklama
Explanation

The test samples numbered 23-2778-R0-N1 was closed while all doors and locks were in their normal state and tested according to IEC 60529.

The test wire with a diameter of 1 mm and a length of 100 mm was pressed to the points where it could enter the test samples numbered 23-2778-R0-N1 with a force of 1 N and there was no entry in the test sample.

9.1.1.2 Yabancı Katı Cisimlere Karşı Koruma Protection Against Access to Solid Foreign Objects

Standard Madde No: 13.4
Standard Sub-clause

Açıklama
Explanation

The test was carried out in a closed test cabinet (dusting test stand) measuring 2600x1450x1900 mm, with a suitable arrangement that keeps the talcum powder suspended, using a powder circulation pump, using the test cabinet shown in the test circuit. 2 kg of talcum powder per cubic meter was used in the test cabinet.

According to category-2, the test samples numbered 23-2778-R0-N1 was placed in the test cabinet without connecting the vacuum pump and the test setup was operated for 8 hours. At the end of the test, the test sample was taken out of the test cabinet and visually inspected.

As a result of the visual inspection, there was no talcum powder entry into the interior of the test sample.



Test Laboratuvarları

9.1.2 Su Girişine Karşı Koruma Derecesi Degree of Protection Against Ingress of Water

Standart Madde No: 9.8
Standard Sub-clause

Deney Tarihi : 20.11.2023
Test Date

Numune No : 23-2778-R0-N1
Sample No

Beyan Koruma Derecesi : IP55
Rated Degree of Protection

Açıklama :
Explanation

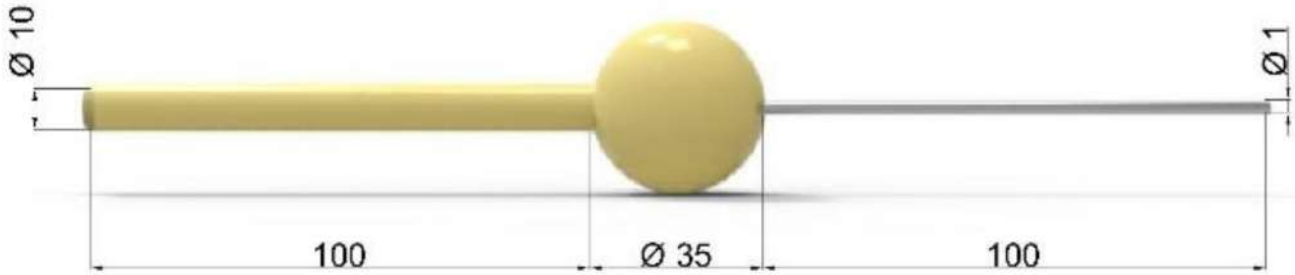
The test samples numbered 23-2778-R0-N1 was closed while all doors and locks were in their normal state and tested according to IEC 60529.

As a test setup; A hose nozzle with an inner diameter of 6.3 mm was used, and the water flow rate was set as 12.5 liters/minute. The test sample was placed 2.5 meters away from the hose nozzle and the test was carried out. The test was applied for 3 minutes and 30 seconds in accordance with the time specified in the standard. The hose nozzle sprayed water on the test sample from all directions.

At the end of the test, the test sample was checked and it was seen that there was no water inlet.

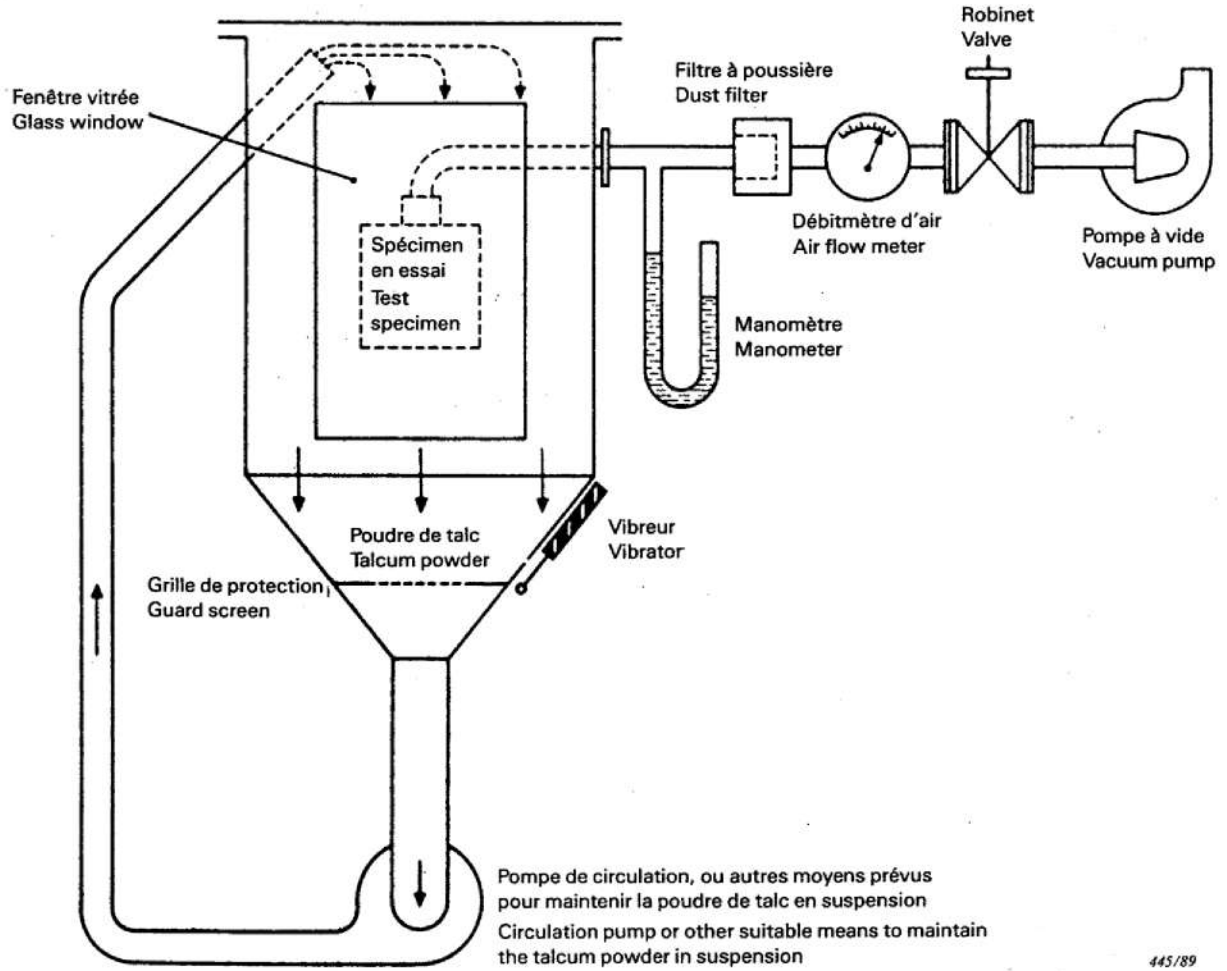
10. Deney ve Ölçüm Bilgileri: Test and Measuring Arrangement

Cihaz Device	İmalatçı Manufacturer	Seri No. / Kod Serial No / Code	Sertifika No Certificate No	Kalibrasyon Bitiş Tarihi Calibration Due Date
Nozzle (IPX4)	LVT	LD363	233438	September/2024
Test Probe (1 mm wire)	LVT	LD132	22M04235	May/2024
Electronic Water Flow Meter	VFA	LD256	DKA065	June/2024
IP Dusting Cabinet	LVT	LD100	—	No Calibration Required.

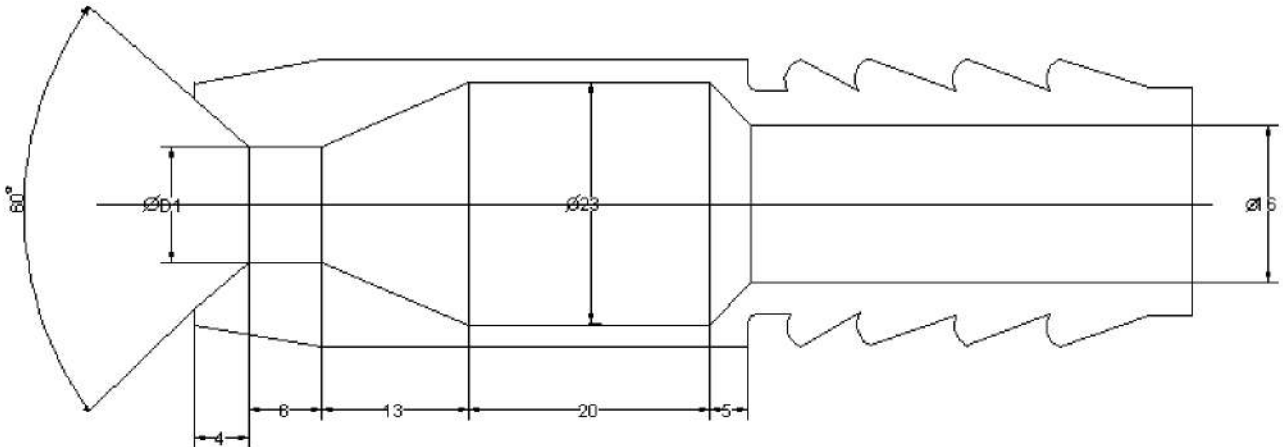


Koruma Derecesinin Doğrulanması

Verification of Degree of Protection



445/89




11. Deney Fotoğrafları:
Test Photographs



Koruma Derecesinin Doğrulanması

Verification of Degree of Protection



Test Sample

12. Firma Dokümanları:
Documentation of Client

19" SAFEbox IP55 Cabinet Enclosure **OUTDOOR**



19" SAFEbox IP55 Outdoor Cabinet Enclosure

W=600 mm SAFEbox IP55 Outdoor Cabinet Enclosure

SAFEbox IP55 Outdoor Cabinets are designed for industrial applications.

Based on EN60529 provided IP55 protection class against dust and water ingress. Where the enclosure provides IP55 protection against dust and water, with fan and filter integration performs IP54.

Application areas are open areas under effects of environment, with protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust), and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water).

Totally gasketed doors, IP55 performing swing handle locking with 3 point locking system, isolated cable entries provides best performance for water and dust ingress.

t=1,5 mm thickness material monoblock welded construction, with epoxy polyester type powder coating which is RAL 7035 Light Grey color, provides the corrosion resistance.

Ventilation via filtered inlets and exhaust of hot air is provided as standard for passive ventilation, options to include fans for active ventilation.



19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

Load Capacity: 100 kgs.

**U Height: 7U, 9U, 12U, 16U,
20U, 22U, 24U, 26U**

Standards and Compliances:



ISO 9001
Quality Management System

EN 61587-1
Mechanical Structures for
Electronic Equipment

EN IEC 297-1, 19" Mounting
EN IEC 297-2 Overall Cabinet
Dimensions

EN/IEC 60529- IP55 Ingress Protection
performance

EN/IEC 62262- IK10 Mechanical
Impact Resistance

EIA/ ECA-310 (D/E) 19" 482,6 mm and
U 44,45 mm Height Sizing



CE conform to
EN 60950-1
Information Technology
Equipment, Safety,
Part-1: General Requirement

EN IEC 62368-1 Audio/Video,
Information and Communication
Technology Equipment
Part 1: Safety requirements



UL listed to
UL 2416, Outline of Investigation for
Audio/Video, Information and
Communication Technology Equipment
Cabinet, Enclosure and Rack
Systems; UL 60950-1 and CSA
C22.2 NO. 60950-1-07, Information
Technology Equipment Safety
Part 1: General Requirements



Environment Friendly;
ISO 14001 Environmental
Management System
RoHS compliancy
%100 Recyclable Material

Standard Color:



RAL 7035 Light Grey



SAFEbox IP55 Outdoor Cabinet Enclosures with 19" w:600 mm and d:450/600 mm sizes, in 8 different U heights, gives a wide selection chart for users.

19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

Construction details:

Integrated fan filter housings creates fresh air inlet, performing IP54 protection of water and dust ingress. With the metal cap on the fan filter housings the enclosure is protected against splashing water.

Roof canopy provides IP54 protection once 1 or 2 fan module integrated on the ABS grill housing. Filtered openings provides efficient hot air removal from enclosure. ***See options of hot air removal on drawings.

Front door opening angle is up to 140 degrees. Front door has an infused sealing gasket structure which provides excellent IP protection even cold/hot weather conditions.

Keyed swing lock handle with 3 point locking system provides security and anti-vandal structure, also maintaining the IP55 protection.

IP55 conforming cable entry points, multiple access with 2xPG21, 1xPG48 integrated cable entry pats, 2 pcs 28 mm diameter PVC Blind cap. Which as an option can be replaced with PG21 cable entry pats. After insertion of the cables to the enclosure, it is recommended to close the openings with foam or insulation material. In addition all Safebox cabinets are delivered with a plain metal cable entry panel which means if shipping configuration cable entry pats are not suitable for your project punching can be done on the spare cable entry plain panel.

The front door is grounded to the main body with yellow/green 4,0 mm diameter copper wire. Front door has the strengthening bar welded inside part of the front door, 2 pcs U shaped.

19" rails of Lande SAFEbox IP55 Outdoor Cabinets has automated silk-screen U numbering, from top to bottom or bottom to top. To save time when installing equipment.

19" rails are 4 fold bending for strength 1,5 mm thickness provides the high load capacities. The 19" rails are made of steel with 8-12 micron zinc plating for corrosion resistance. 19" rails are adjustable in depth. Cabinets are delivered with 1set: 2pcs 19" front rails.

The front door infused sealing gasket sits on the flange bends of main cabinet construction maintaining the IP rating.

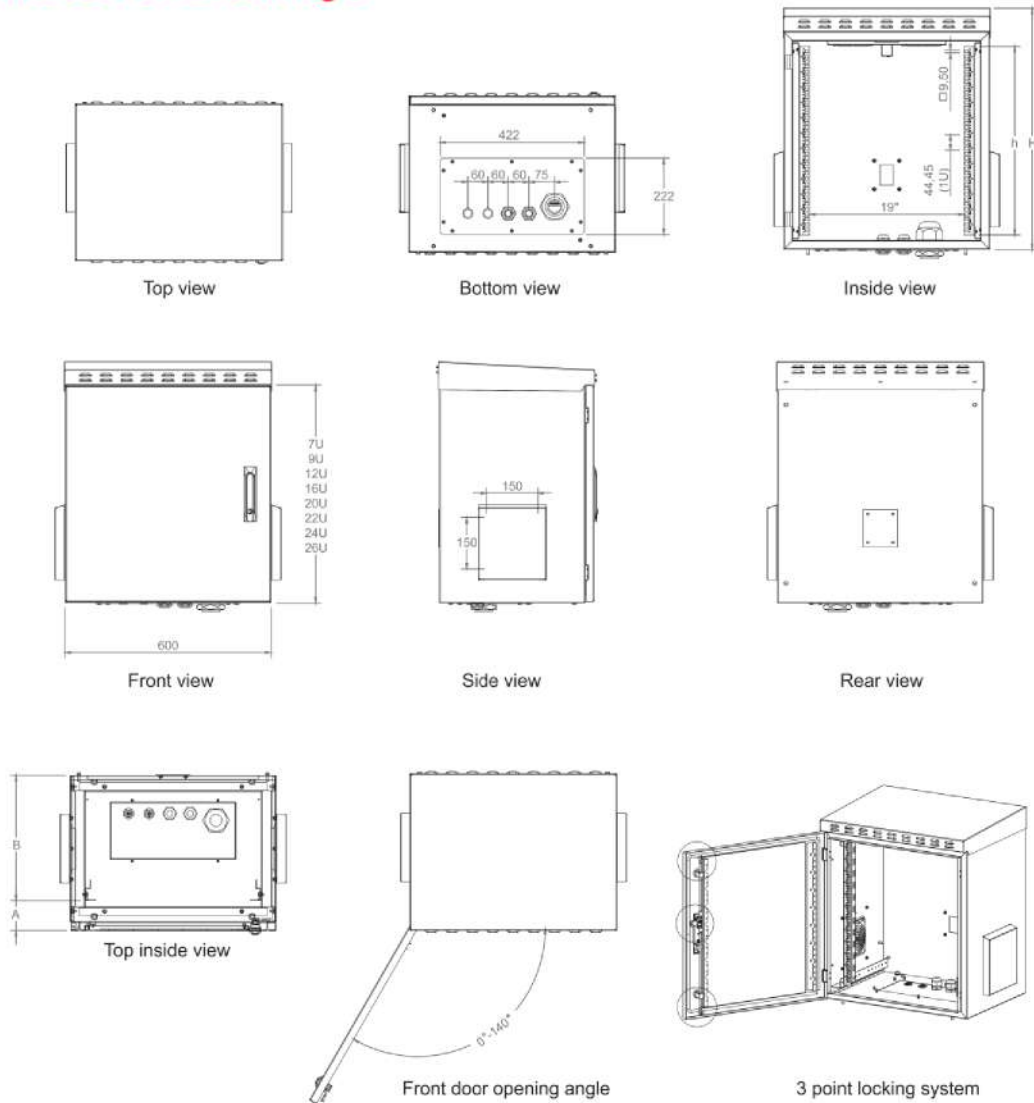
Included 4 pcs, t:3,0 mm thickness wall fixing brackets with correct screws and washers.



19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

Construction Drawings



	A		B	
	Min	Max	Min	Max
D=450	60 mm	185 mm	260 mm	385 mm
D=600	60 mm	335 mm	260 mm	535 mm

19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

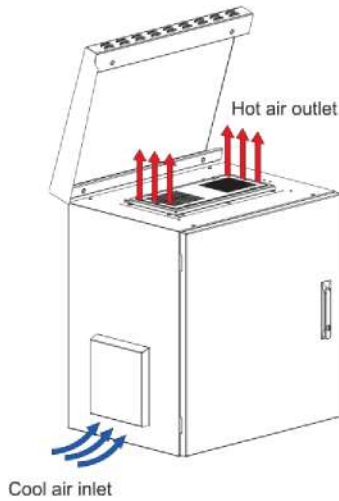
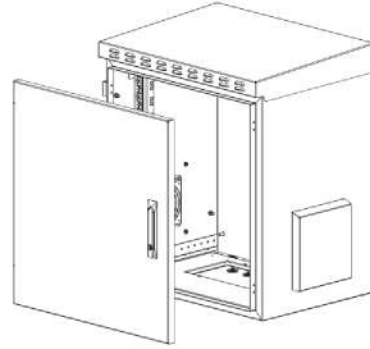
Construction Drawings



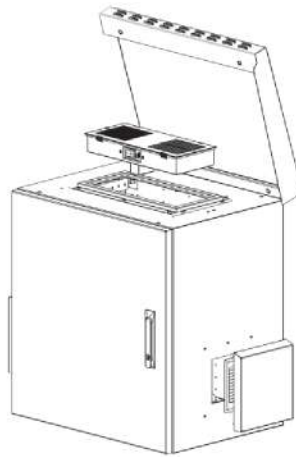
Top cover opening view



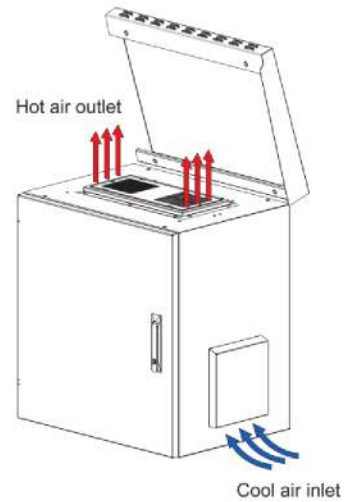
Top cover opening view side



Cool air inlet



Air removal

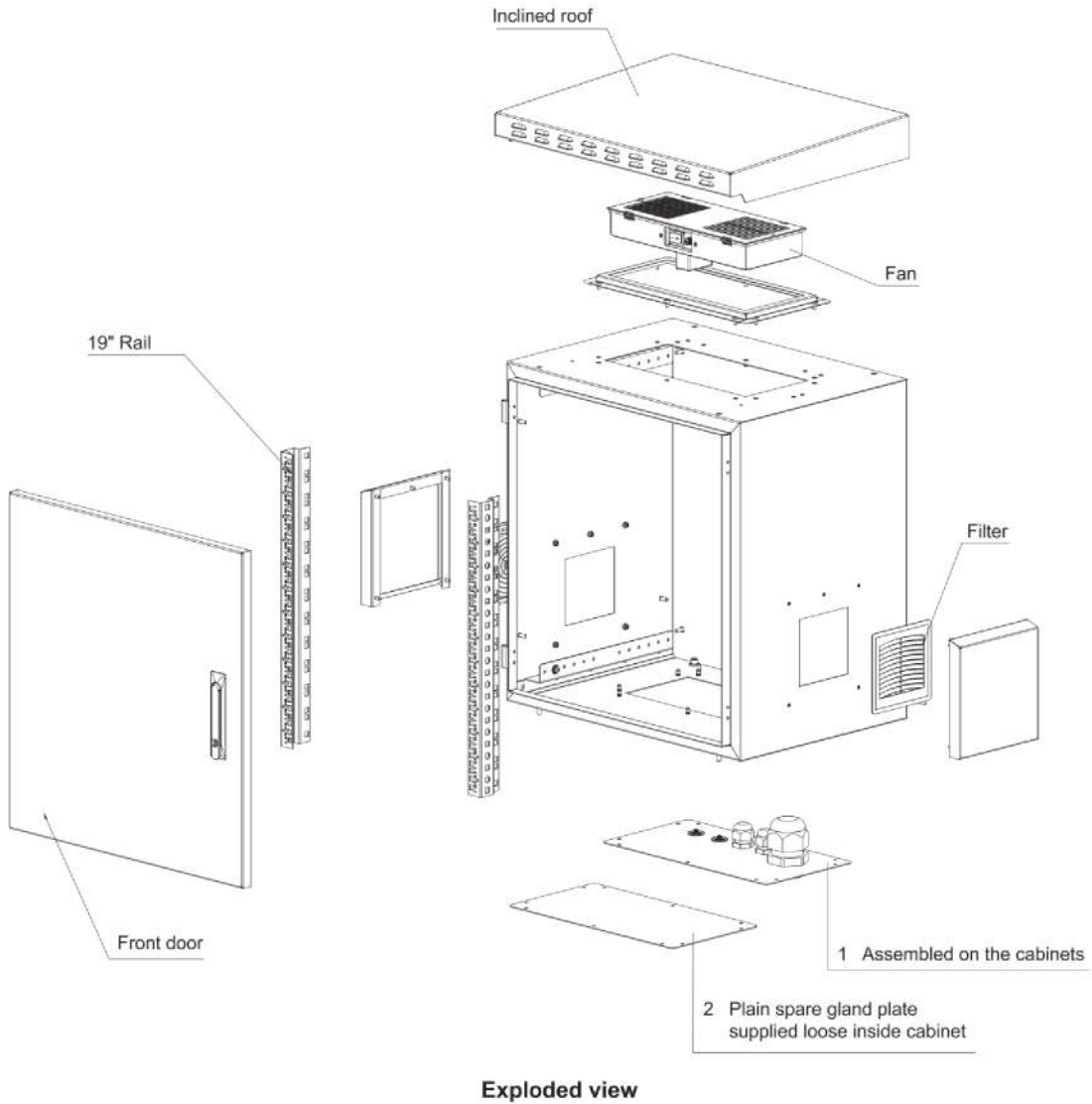


Cool air inlet

19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

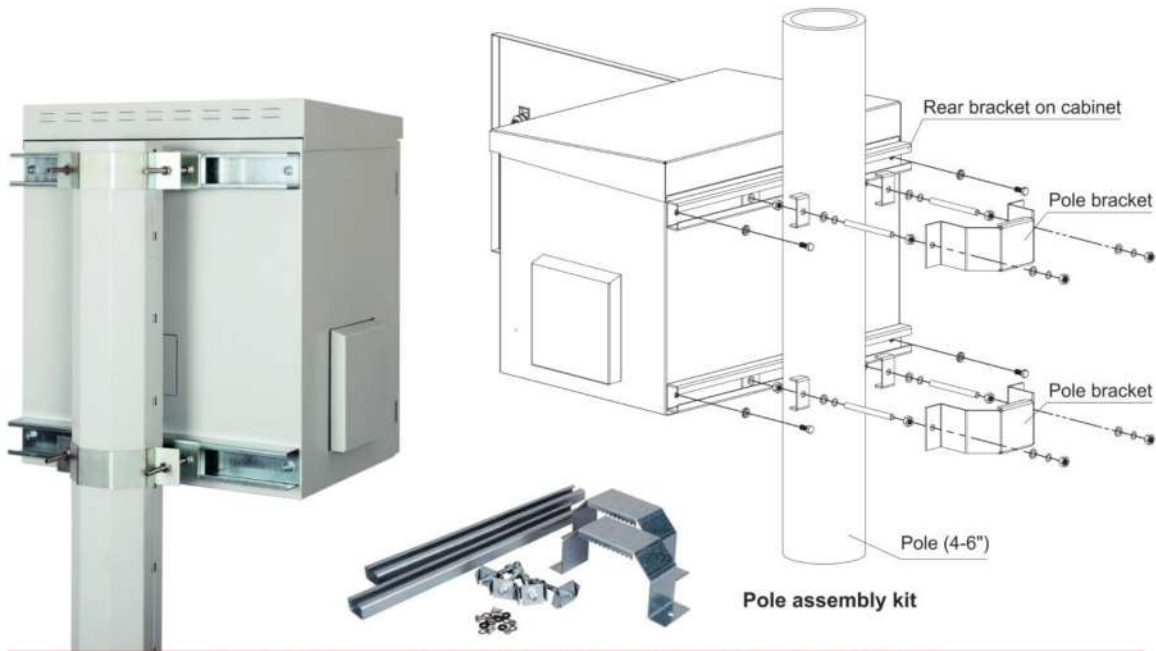
Construction Drawings



19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

Construction Drawings



19" SAFEbox Series IP55 Outdoor Cabinets Enclosure W=600 mm D=450/600 mm															
Product Number	Product Description	Size WxDxH mm	h in U	h in mm	H mm, overall without feet and/or cabinet	Width Overall mm	Width Rail to Rail	Depth Overall mm	Depth Shipping Conf. Rail to Rail mm	QTY IN PACKAGE	PACKING DIMENSIONS WxDxH mm	Standard NET Weight of Product kgs	Gross Weight of Product kgs	QTY IN PALLET	PALLET DIMENSIONS WxDxH mm
LN-SBO-IP5507U6045-LG	7U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x490	7U	311	490	600	19"	450	345	1	690x480x510	31	32	16	1300x1300x2200
LN-SBO-IP5509U6045-LG	9U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x579	9U	400	579	600	19"	450	345	1	690x480x600	33	34	16	1300x1300x2550
LN-SBO-IP5512U6045-LG	12U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x713	12U	533	713	600	19"	450	345	1	690x480x730	37	38	12	1300x1300x2350
LN-SBO-IP5516U6045-LG	16U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x891	16U	711	891	600	19"	450	345	1	690x480x910	41	43	8	1300x1300x2000
LN-SBO-IP5520U6045-LG	20U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1068	20U	889	1068	600	19"	450	345	1	690x480x1090	48	49.5	8	1300x1300x1780
LN-SBO-IP5522U6045-LG	22U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1157	22U	977	1157	600	19"	450	345	1	690x480x1180	51	52.5	8	1300x1300x1960
LN-SBO-IP5524U6045-LG	24U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1245	24U	1066	1245	600	19"	450	345	1	690x480x1265	53	54.7	8	1300x1300x2140
LN-SBO-IP5526U6045-LG	26U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1334	26U	1155	1334	600	19"	450	345	1	690x480x1355	56	57.9	8	1300x1300x2310
LN-SBO-IP5507U6060-LG	7U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x490	7U	311	490	600	19"	600	495	1	690x630x510	37	38	16	1300x1300x2200
LN-SBO-IP5509U6060-LG	9U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x579	9U	400	579	600	19"	600	495	1	690x630x600	40	41	16	1300x1300x2550
LN-SBO-IP5512U6060-LG	12U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x713	12U	533	713	600	19"	600	495	1	690x630x730	43	45	12	1300x1300x2350
LN-SBO-IP5516U6060-LG	16U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x891	16U	711	891	600	19"	600	495	1	690x630x910	49	51	8	1300x1300x2000
LN-SBO-IP5520U6060-LG	20U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1068	20U	889	1068	600	19"	600	495	1	690x630x1090	58	59.8	8	1300x1300x1780
LN-SBO-IP5522U6060-LG	22U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1157	22U	977	1157	600	19"	600	495	1	690x630x1180	61	62.8	8	1300x1300x1960
LN-SBO-IP5524U6060-LG	24U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1245	24U	1066	1245	600	19"	600	495	1	690x630x1265	64	65.8	8	1300x1300x2140
LN-SBO-IP5526U6060-LG	26U 19" SafeBox IP55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1334	26U	1155	1334	600	19"	600	495	1	690x630x1355	67	69	8	1300x1300x2310
LN-SBO-PL-KIT-ZN	Pole assembly kit, for 4-6" pole diameter, zinc plated	Box 1 profile 70x35x600 Box 2 brackets 145x85x380	-	-	-	-	-	-	-	1	72x37x602 147x87x382	3.3 2.7	3.32 2.72	-	-
LN-PLNTH-D45-LG	Plinth H 100, for concrete basement, for Safebox Cabinets when used on floor for 600x450 mm cabinets	600x450x100	-	-	-	600	-	450	-	1	620x470x120	6.5	7	30	600x1000x1800
LN-PLNTH-D60-LG	Plinth H 100, for concrete basement, for Safebox Cabinets when used on floor for 600x600 mm cabinets	600x600x100	-	-	-	600	-	600	-	1	620x620x120	7.8	8.6	30	600x1000x1800



19" SAFEbox IP55

Outdoor Cabinet Enclosure Free Standing Application with Plinth Usage

Width: 600 mm
Depth: 450/600 mm



SAFEbox Series IP55 Outdoor Plinth for Concrete Assembly

Product Number	Product Description	Size WxDxH mm	h Size in U	h in mm	H mm, overall without feet and/or castor	Width Overall mm	Width Rail to Rail	Depth Overall mm	Depth Shipping Conf. Rail to Rail mm	QTY IN PACKAGE	PACKING DIMENSIONS WxDxH mm	Standard NET Weight of Product kgs	Gross Weight of Product kgs	QTY IN PALLET	PALLET DIMENSIONS WxDxH mm	Pallet Weight kgs
LN-PLNTH-D45-LG	Plinth H 100, for concrete basement, for Safebox Cabinets when used on floor for 600x450 mm Cabinets	600x450x100	-	-	-	600	-	450	-	1	620x470x120	6,5	7	30	600x1000x1800	230
LN-PLNTH-D60-LG	Plinth H 100, for concrete basement, for Safebox Cabinets when used on floor for 600x600 mm Cabinets	600x600x100	-	-	-	600	-	600	-	1	620x620x120	7,8	8,6	30	600x1000x1800	280

19" SAFEbox IP55 Outdoor Cabinet Enclosure

Width: 600 mm
Depth: 450/600 mm

Accessories



Ready pre-installed, plug-in and run style, with 0-60°C operating analogue thermostat switch and plugs. Each fan has an air flow capacity of 2.63-3.03cbm/min. Fan technical data: 13,8/11,8W, 220/240VAC, 50/60Hz, 0,14/0,12A, 2550/2750rpm 43-47dB-A noise level. Fan life: 50.000hours at 40°C.

FAN MODULES with ANALOGUE THERMOSTAT	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox IP55 Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-FAN-THM-1FWMIP-LG 1 fan module thermostat switched - filtered for SAFEbox IP55 Outdoor Cabinet Enclosure	346x175x50	380x160x60	1,53	1,76	15	545x425x400	28,2	•	•
LN-FAN-THM-2FWMIP-LG 2 fan module thermostat switched - filtered for SAFEbox IP55 Outdoor Cabinet Enclosure	346x175x50	380x160x60	1,97	2,20	15	545x425x400	34,9	•	•
LN-FAN-THM-1FWMIP-LG-48 Fan Module thermostat switched, filtered for SAFEbox IP55 Outdoor Cabinet Enclosure, 48V DC	346x175x50	380x160x60	1,53	1,76	15	545x425x400	28,2	•	•
LN-FAN-THM-2FWMIP-LG-48 Fan Module thermostat switched, filtered for SAFEbox IP55 Outdoor Cabinet Enclosure, 48V DC	346x175x50	380x160x60	1,97	2,20	15	545x425x400	34,9	•	•



100 mm height, to integrate under bottom case of cabinet, with the intend of establishing cable reserve as well to raise cabinet to a certain height from the concrete basement. Fixings are from 4 corners to concrete basement with M12 nut and screws. Screws and nuts not included in shipping configuration.

PLINTH	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox IP55 Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-PLNTH-D45-LG Plinth H 100, for concrete basement, for Safebox Cabinets when used on floor for 600x450 mm cabinets	600x450x100	620x470x120	6,5	7	-	-	-	•	-
LN-PLNTH-D60-LG Plinth H 100, for concrete basement, for Safebox Cabinets when used on floor for 600x600 mm cabinets	600x600x100	620x620x120	7,8	8,6	-	-	-	-	•



19" SAFEbox IP55 Cabinet Enclosure

ACCESSORIES



19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

4U / 2U Adjustable Stepless DIN Rail



4U Mounting 19" ears, DIN rail set to back, 19" rails adjusted to top elevation.



4U Mounting 19" ears, DIN rail set to front, 19" rails adjusted to middle elevation.



4U Mounting 19" ears, DIN rail set to middle position, 19" rails adjusted to top elevation.



Rear view with cable management tire up location



2U Mounting 19" ears, DIN rail set to back



2U mounting 19" ears, DIN rail set to center



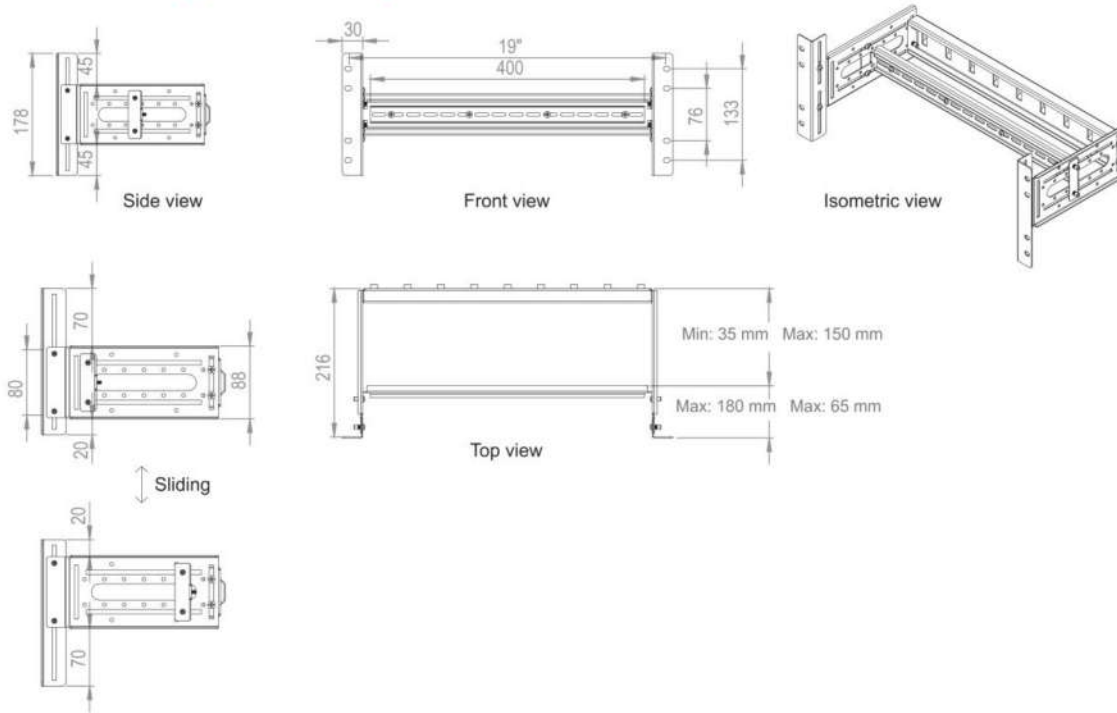
4U DIN rail depth/height adjustable, 4U and 2U 19" connection bars included, t=1,5 mm zinc plated steel, with rear cable management tire, up panel structure. In standard delivered with both 2U and 4U connection bars. If different height devices installed, with help of 4U brackets, you can align the different height of equipments on the DIN rail.

4U 19" DIN RAIL MODULE	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-DIN-MOD-4U19-ZN 4U 19" DIN rail module, adjustable in depth and height. 4U / 2U convertible	438x220x88	465x220x102	1,6	1,8	12	595x510x530	21,6	•	•

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

4U / 2U Adjustable Stepless DIN Rail



DIN Rail depth adjustment stepless



DIN Rail height adjustment stepless



4U DIN rail depth/height adjustable, 4U and 2U 19" connection bars included, t=1,5 mm zinc plated steel, with rear cable management tire, up panel structure. In standard delivered with both 2U and 4U connection bars. If different height devices installed, with help of 4U brackets, you can align the different height of equipments on the DIN rail.

4U 19" DIN RAIL MODULE	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-DIN-MOD-4U19-ZN 4U 19" DIN rail module, adjustable in depth and height. 4U / 2U convertible	438x220x88	465x220x102	1,6	1,8	12	595x510x530	21,6	•	•

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

DIN Rails



Basic DIN rail, 50 cm long, including special self drilling screw set, can be installed on all inner panels of double skin enclosure and make installation of non rack-mount devices, such as AC-DC converters heaters. Moulded circuit breakers, electrical hardware etc. 1U panel mounted basic and 1U panel mounted with bends offset to back are options.

1U DIN RAIL MODULE	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-WOT-DIN DIN rail with 50 cm length galvanised including screw set	305x6x35	-	0,16	0,18	-	-	-	•	•
LN-PNL-DIN-1U19-B-CC 1U 19" DIN rail module- basic version on 1U panel and galvanised steel DIN rail	482x20x44	503x25x55	0,3	0,4	100	595x510x530	40	•	•
LN-PNL-DIN-1U19-E-CC 1U 19" DIN rail module- bended offset version on 1U panel and galvanised steel DIN rail	482x70x44	510x155x55	0,4	0,5	50	595x510x532	25	•	•

* CC= Color Code, LG Light Grey RAL 7035, BL Black RAL 9005, customers to define while ordering.

Cable Management Rings



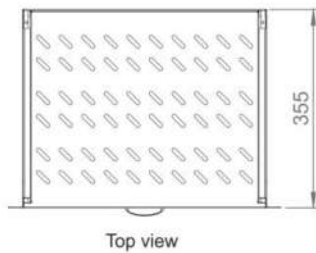
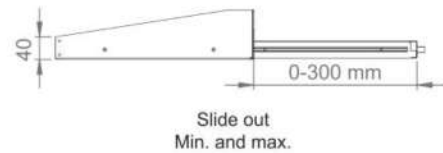
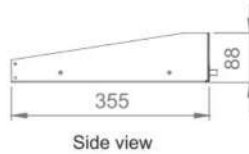
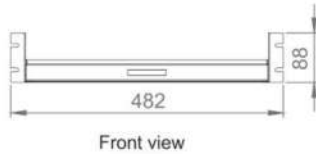
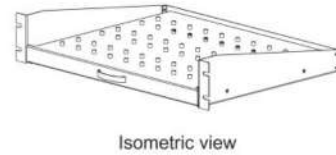
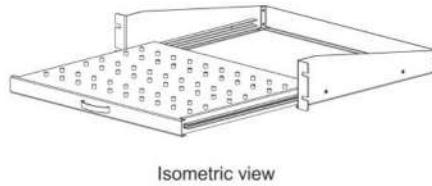
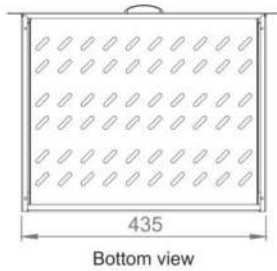
Horizontal cable management rings are for the cable management inside the cabinet, for use of carrying the cables into the final connection point. 44x30 mm 1set: 5pcs rings set including self drilling screw set-can be installed inner skin surface of cabinet enclosure. RAL 7035 Light Grey color.

CABLE MANAGEMENT RINGS	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-KDG-KKM-4430-LG Cable management ring set for cable management including self drilling screws, metal 44x30 mm 1 set= 5 pcs	45x30x45	80x80x100	0,027	0,2	100	310x505x530	20	•	•

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

2U Rack Mount Sliding Shelf



2U rack mount 0-350 mm sliding shelf. Just 2 point front fixing, designed specially for front access enclosures cabinets to allow sliding the components housed inside while cabinet has only front door access. Max load 15 kgs. Steel material, painted with RAL 7035 Light Grey color.

2U SLIDING SHELF For front access cabinets enclosures	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-RAF-HRK-D400-CC Lande 2U rack mountable, 1U sliding mechanism, sliding shelf for D450 and 600 mm for frontal access enclosures max load capacity 15 kgs.	482x355x88	520x380x95	3,04	3,5	7	595x510x530	24,5	•	•

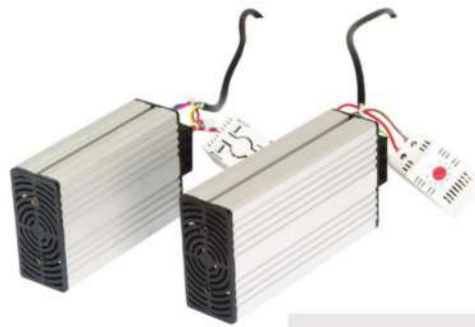
* CC= Color Code, LG Light Grey RAL 7035, BL Black RAL 9005, customers to define while ordering.

19" SAFEbox IP55 Indoor-Outdoor Cabinets, Enclosures and Accessories

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Heaters



50/60Hz, 220V, 35 mm DIN Rail type heater, from 30watts to 150watts heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm² connection terminal entry. Lande offers higher capacity of heaters for different capacity needs with/without fan blowers up to 800watts.

FIELD ENCLOSURE SECURITY HEATERS	Logistics Data							COMPATIBLE WITH	
	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
LN-30W 50/60 Hz, 220V, 35 mm DIN Rail type heater, 30W heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm ² connection terminal entry 85°C body heat, H75 mm	110x80x50	385x225x90	0,3	0,5	15	595x510x531	7,5	•	•
LN-50W 50/60 Hz, 220V, 35 mm DIN Rail type heater, 50W heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm ² connection terminal entry 85°C body heat, H85 mm	110x80x50	385x225x90	0,3	0,5	15	595x510x530	7,5	•	•
LN-75W 50/60 Hz, 220V, 35 mm DIN Rail type heater, 75W heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm ² connection terminal entry 125°C Body Heat, H105 mm	160x80x50	385x225x90	0,6	0,8	15	595x510x530	12	•	•
LN-100W 50/60 Hz, 220V, 35 mm DIN Rail type heater, 100W heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm ² connection terminal entry 125°C body heat, H120 mm	160x80x50	385x225x90	0,6	0,8	15	595x510x530	12	•	•
LN-125W 50/60 Hz, 220V, 35 mm DIN Rail type heater, 125W heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm ² connection terminal entry 125°C body heat, H150 mm	260x80x50	385x225x90	0,7	0,9	15	595x510x530	13,5	•	•
LN-150W 50/60 Hz, 220V, 35 mm DIN Rail type heater, 150W heating capacity, aluminum heater body, winter thermostat integrated, power cable, 1,5-2,5 mm ² connection terminal entry 125°C body heat, H190 mm	260x80x50	385x225x90	0,7	0,9	15	595x510x530	13,5	•	•

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Hygrostats



Heater units are delivered winter thermostat integrated in standard. But, hygrostat is also advised for SAFEbox cabinets enclosures application that has condensation risk. You can select hygrostat+thermostat in order to control/minimize condensation risk and control heating, at the same time activate fan system.

HYGROSTAT	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight Kgs	Product Gross Weight Kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight Kgs	600x450	600x600
LN-HGT Lande mechanic analogue hygrostat- 4% RH (± 3% tolerance) %40-90 Rh, 2,5 mm ² clemence terminal, 35mm DIN rail type	57x52x105	61x58x114	0,16	0,17	200	595x510x530		•	•
LN-HGT-THM Lande mechanic analogue hygrostat 4% RH (± 3% tolerance) %40-90 Rh + thermostat 0-60°C, 2,5mm ² clemence terminal, 35 mm DIN rail type	57x52x105	61x58x114	0,18	0,19	200	595x510x530	38	•	•



The module will activate cooling/ventilation system devices such as fans. Air Conditioners or heat exchangers incase of temperature is exceeded the threshold value inside rack. Incase temperature is lower than threshold value than module will activate the heating devices. Also incase humidity is more than threshold value than again heating devices will be activated by the module DIN Rail type.

THERMOSTAT MODULE	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight Kgs	Product Gross Weight Kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight Kgs	600x450	600x600
LN-THM-SS Intelligent digital thermostat module including humidity and temperature sensor. (DIN Rail type)	70x45x115	135x135x70	0,12	0,21	150	300x500x515	31,5	•	•

Door Switches



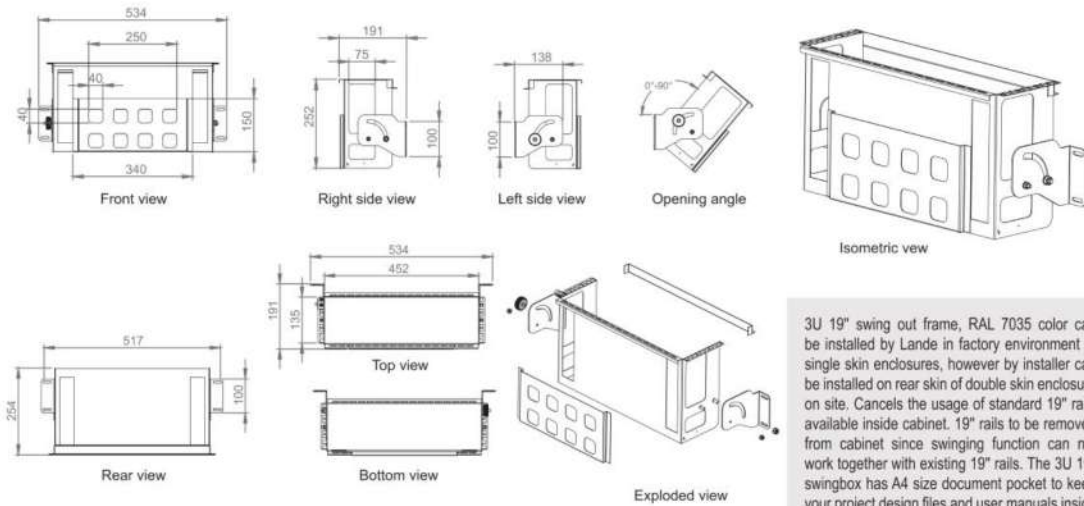
SAFEbox Cabinet Enclosure Door Switches

Various door switches are available for meeting your function requirements based on usage purposes. Please specify the switch type and quantity with your sales representative.

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

3U Swing Out Frame



3U SWING OUT FRAME	Logistics Data							COMPATIBLE WITH	
								19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
LN-SWG-3U19-LG 3U 19" swing out frame Depth: 252 mm RAL 7035 light grey	535x280x165	-	2,6	2,5	-	-	-	•	•

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

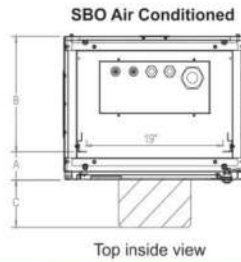
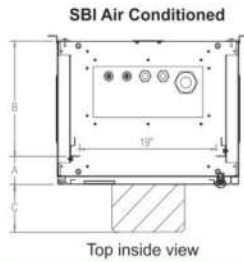
Accessories



	A		B	
	Min	Max	Min	Max
D=450	60 mm	185 mm	260 mm	385 mm
D=600	60 mm	335 mm	260 mm	535 mm

	A		B	
	Min	Max	Min	Max
D=450	60 mm	185 mm	260 mm	385 mm
D=600	60 mm	335 mm	260 mm	535 mm

	A		B	
	Min	Max	Min	Max
D=450	45 mm	170 mm	250 mm	375 mm
D=600	45 mm	320 mm	250 mm	525 mm



LANDE Air Conditioner & Heat Exchanger Technical Specifications

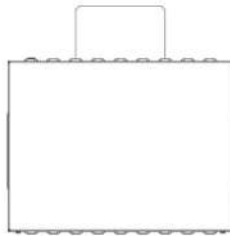
Product Name	Cooling Capacity	Lande Code	Industrial	Width	Height	Depth	Product Compatibility	*C mm
DC Air Conditioner 48VDC	300W	LN-ZB-003-000-010	EM-450-1	240	400	150	7U to 26U	150 mm
	500W	LN-ZB-005-000-021	EM-450-4	352	583	175	12U to 26U	130 mm
	600W	LN-ZB-006-000-020	EM-450-5	352	583	175	12U to 26U	130 mm
	800W	LN-ZB-008-000-022	EM-450-6	352	583	175	12U to 26U	130 mm
	1000W	LN-ZB-010-000-030	EM-450-7	432	844	175	20U to 26U	130 mm
	1500W	LN-ZB-015-000-041	EM-450-8	470	1170	175	26U	130 mm
	2000W	LN-ZB-020-000-040	EM-450-9	470	1170	175	26U	130 mm
AC Air Conditioner 220/230 VAC	500W	LN-YB-005-000-012	EM-503-1	352	583	175	12U to 26U	130 mm
	600W	LN-YB-006-000-010	EM-503-2	352	583	175	12U to 26U	130 mm
	1000W	LN-YB-010-000-020	EM-503-3	482	782	200	20U to 26U	155 mm
	1500W	LN-YB-015-000-031	EM-503-4	482	782	200	20U to 26U	155 mm
	2000W	LN-YB-020-000-030	EM-503-5	482	782	200	20U to 26U	155 mm
Heat Exchanger 48VDC	50W/K	LN-ZA-050-000-010	EM-423-4	372	650	200	16U to 26U	170 mm
	80W/K	LN-ZA-080-000-020	EM-423-6	440	940	155	20U to 26U	119 mm
	120W/K	LN-ZA-120-000-030	EM-423-7	452	1030	200	22U to 26U	147 mm
	150W/K	LN-ZA-150-000-031	EM-423-8	452	1030	200	22U to 26U	147 mm

* C is the offset in mm of cooling/ventilation device from front door surface.

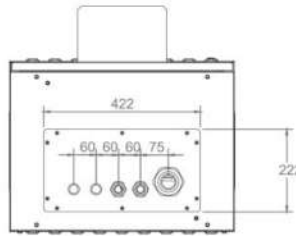
19" SAFEbox IP55 Indoor-Outdoor Cabinets, Enclosures and Accessories

19" SAFEbox IP55 Cabinet Enclosure

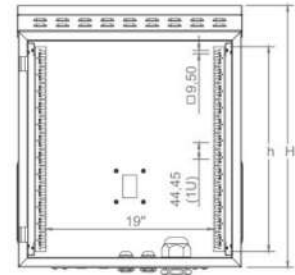
Air Condition / Heat Exchanger Integration Example on a Safebox Cabinet



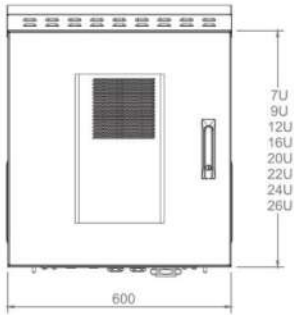
Top view



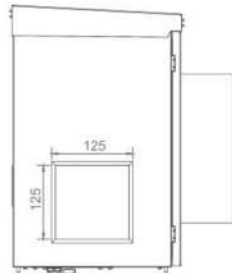
Bottom view



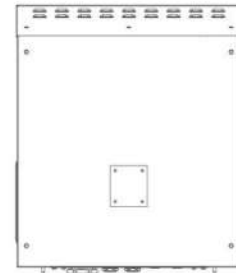
Inside view



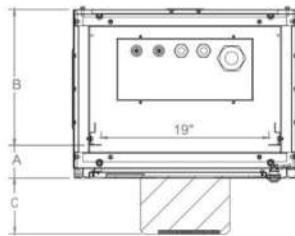
Front view



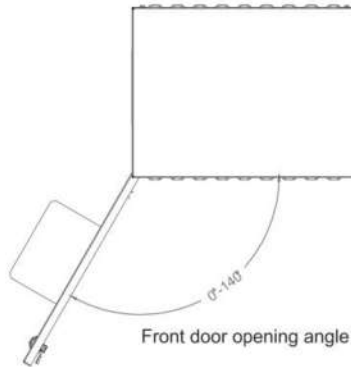
Side view



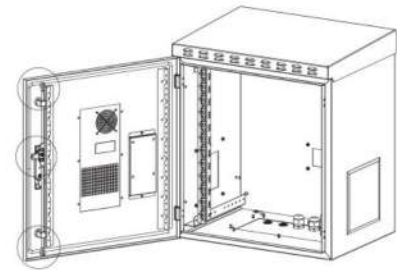
Rear view



Top inside view



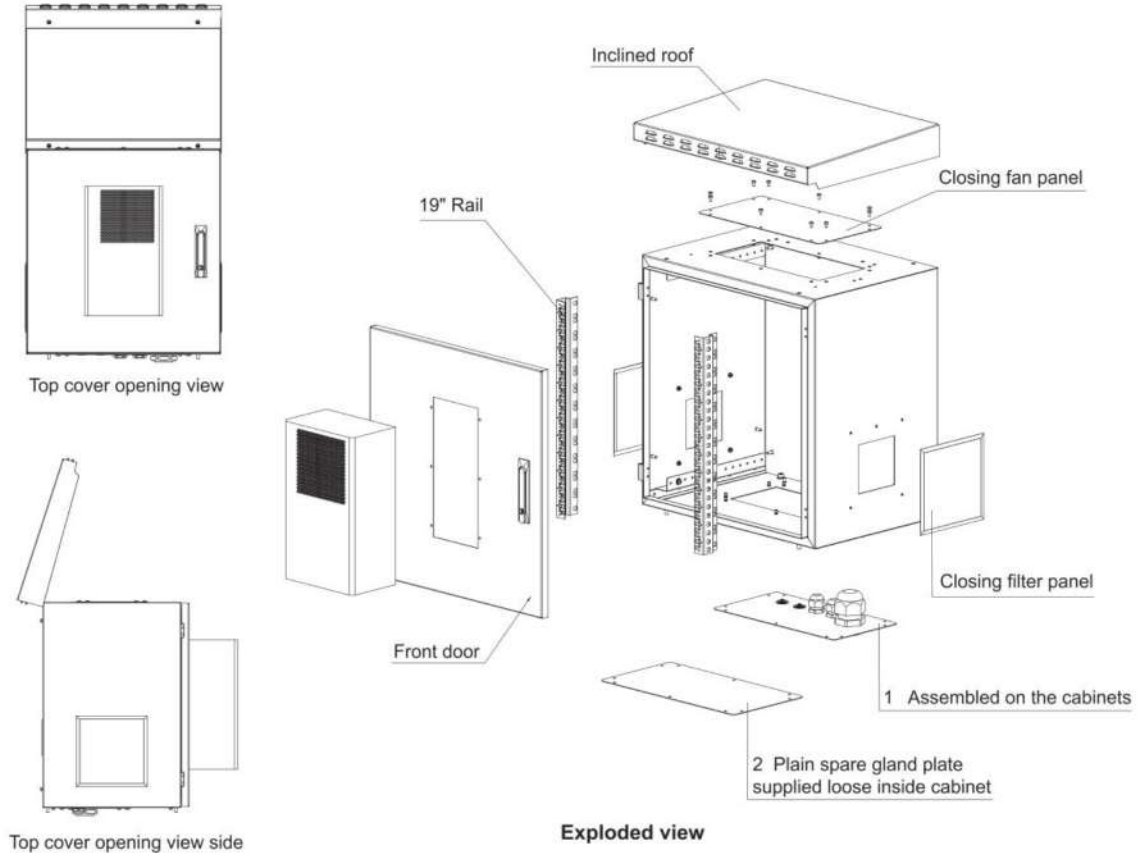
Front door opening angle



3 point locking system

19" SAFEbox IP55 Cabinet Enclosure

Air Condition / Heat Exchanger Integration Example on a Safebox Cabinet



- As standard, on the sides of the main body, there are 2 pcs fresh air inlets, if using air conditioning or heat exchanger device additional blanking plates are provided to seal the inlets and maintain the efficiency of the system.
- The roof of the enclosure is equipped with a fan tray installation housing, as standard the SAFEbox is supplied with a removable blanking plate to maintain efficiency of cooling/heat exchanger device
- As an option the front door of the existing SAFEbox cabinets can be replaced with an air conditioner or heat exchanger integrated front door, which will enhance cooling/heat exchanger in the cabinet or can solve heat problems occurs in the cabinets which has been deployed some time back at this event. The integrated air con or heat exchange doors can be retrofitted to existing installed cabinets should heat exchanger problems be identified

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure Thermoelectric Coolers - Peltier Device

LN-3030, LN-3050, LN-3102, LN-6105



External or recessed mounting

- Cooling capacities: 30 W, 50 W and 100 W
- AC and DC models available
- Suitable for Indoor and Outdoor applications
- Can be mounted in any position*
- NEMA 4X rated
- Ingress protection rating of IP 66
- Virtually maintenance free

LN-3030, LN-3050, LN-3102, LN-6105				
Type	LN-3030	LN-3050	LN-3102	LN-6105
Order number recessed	LN-3030-3	LN-3050-3	LN-3102-3	LN-6105-3
Order number with frame	LN-3030-5	LN-3050-5	LN-3102-5	LN-6205-5
Cooling capacity L35L35	30 W	50 W	100 W	
Operating temperature range	-20°C - +65°C			
Setting range	n. a.			+20°C - +50°C (cooling)
Ambient / cabinet air flow	39 / 20 m³/h	64 / 23 m³/h	128 / 46 m³/h	
Mounting	recessed / external (with frame)			
Dimensions A x B x C (D) recessed	110 x 154 x 128 (65) mm	206 x 154 x 135 (75) mm	200 x 304 x 138 (73.9) mm	280 X 350 x 140 (85.5) mm
Dimensions A x B x C with frame	212 x 158 x 131 mm	302 x 158 x 137 mm	302 x 306 x 140 mm	280 x 350 x 148 mm
Housing material	Stainless steel 304 (V2A)			
Weight (recessed / with frame)	1.8 / 2.6 kg	3.3 kg / 3.9 kg	5.9 kg / 7.4 kg	9.4 kg / 11 kg
ELECTRICAL DATA				
Voltage / Frequency	12 V DC	24 V DC	24 V DC	120 - 230 V AC ~ 50/60 Hz
Current L35L35	2.8 A	2.4 A	4.8 A	1.1 A @ 120 V 0.5 A @ 230 V
Starting current	4.3 A	3.7 A	7.4 A	1.6 A @ 120 V 0.8 A @ 230 V
Max. current	2.9 A	2.5 A	4.9 A	1.1 A @ 120 V 0.6 A @ 230 V
Nominal power L35L35	34 W	57.6 W	115 W	126 W
Max. power	35 W	60 W	118 W	131 W
Fuse rating	5 A (T)	4 A (T)	8 A (T)	2 A (T) 1 A (T)
Connection	Connection terminal block			
Ingress IP protection	IP 66			
Certification	CE, RoHS	CE, RoHS, cURus		CE, RoHS
* Depending on the mounting situation the condensation management may need to be considered and possibly adjusted.				

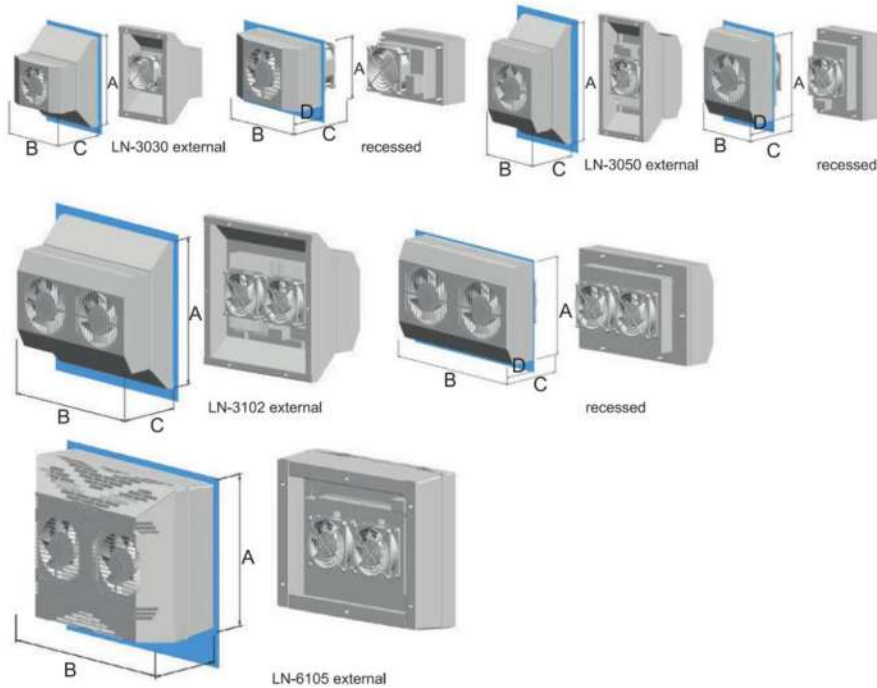
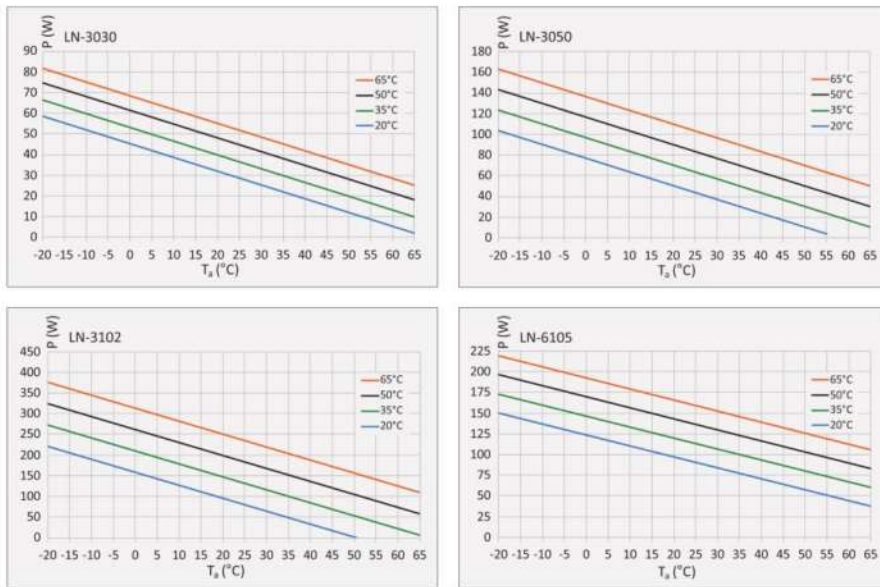
* Depending on the mounting situation the condensation management may need to be considered and possibly adjusted.



19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure Thermoelectric Coolers - Peltier Device

LN-3030, LN-3050, LN-3102, LN-6105 - Performance Graphs



19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure Thermoelectric Coolers - Peltier Device

LN-3152, LN-3200, LN-6155, LN-6205



External or recessed mounting

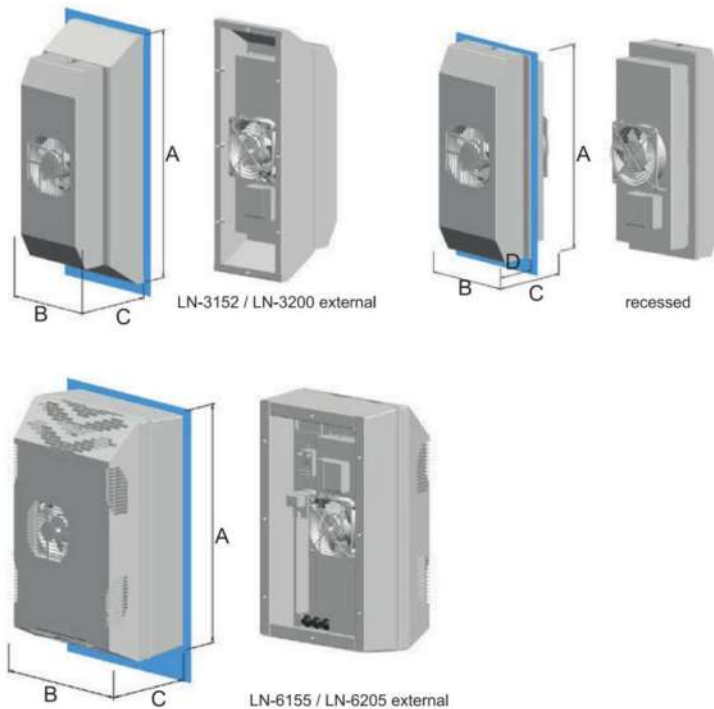
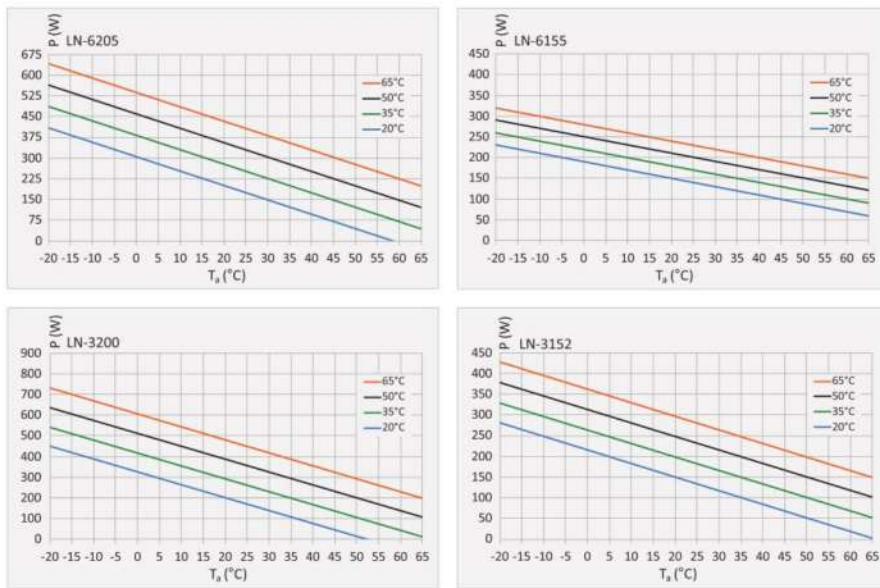
- Cooling capacities: 150 W, 200 W and 250 W
- AC and DC models available
- Suitable for Indoor and Outdoor applications
- Can be mounted in any position*
- NEMA 4X rated
- Ingress protection rating of IP 66
- Virtually maintenance free

LN-3152, LN-3200, LN-6155, LN-6205							
Type	LN-3152	LN-3200	LN-3200	LN-6155	LN-6205		
Order number recessed	LN-3152-3	LN-3200-3	LN-3200-3	LN-6155-3	LN-6205-3		
Order number with frame	LN-3152-5	LN-3200-5	LN-3200-5	LN-6155-5	LN-6205-5		
Cooling capacity L35L35	150 W	200 W	250 W	150 W	200 W		
Operating temperature range	-20°C - +65°C						
Setting range	n. a.			+20°C - +50°C (cooling)			
Ambient / cabinet air flow	120 / 60 m³/h	120 / 120 m³/h		120 / 60 m³/h	120 / 120 m³/h		
Mounting	recessed / external (with frame)						
Dimensions A x B x C (D) recessed	400 x 180 x 171 (81) mm			500 x 300 x 194 (107.5) mm			
Dimensions A x B x C with frame	500 x 188 x 174 mm			500 x 300 x 200 mm			
Housing material	Stainless steel 304 (V2A)						
Weight (recessed / with frame)	9 kg / 12.7 kg	10 kg / 13.7 kg	10 kg / 13.7 kg	16.2 / 19 kg	17.2 / 20 kg		
	ELECTRICAL DATA						
Voltage / Frequency	24 V DC	24 V DC	48 V DC	120 - 230 V AC ~ 50/60 Hz			
Current L35L35	7 A	10.8 A	8.5 A	1.4 A @ 120 V	0.7 A @ 230 V	1.9 A @ 120 V	1.0 A @ 230 V
Starting current	11 A	17 A	14 A	2.1 A @ 120 V	1.1 A @ 230 V	2.9 A @ 120 V	1.5 A @ 230 V
Max. current	7.5 A	11.6 A	9.3 A	1.5 A @ 120 V	0.8 A @ 230 V	2.0 A @ 120 V	1.0 A @ 230 V
Nominal power L35L35	170 W	260 W	400 W	170 W	230 W		
Max. power	180 W	280 W	440 W	180 W	240 W		
Fuse rating	10 A (T)	16 A (T)	13 A (T)	3 A (T)	2 A (T)	3 A (T)	2 A (T)
Connection	Connection terminal block						
Ingress IP protection	IP 66						
Certification	CE, RoHS, cURus			CE, RoHS			
* Depending on the mounting situation the condensation management may need to be considered and possibly adjusted.							

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure
Thermoelectric Coolers - Peltier Device

LN-3152, LN-3200, LN-6155, LN-6205 - Performance Graphs



19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure Thermoelectric Coolers - Peltier Device

LN-6405, LN-6805



External or recessed mounting

- Cooling capacities: 250 W, 400 W and 800 W
- AC and DC models available
- Suitable for Indoor and Outdoor applications
- Can be mounted in any position*
- NEMA 4X rated
- Ingress protection rating of IP 66
- Virtually maintenance free

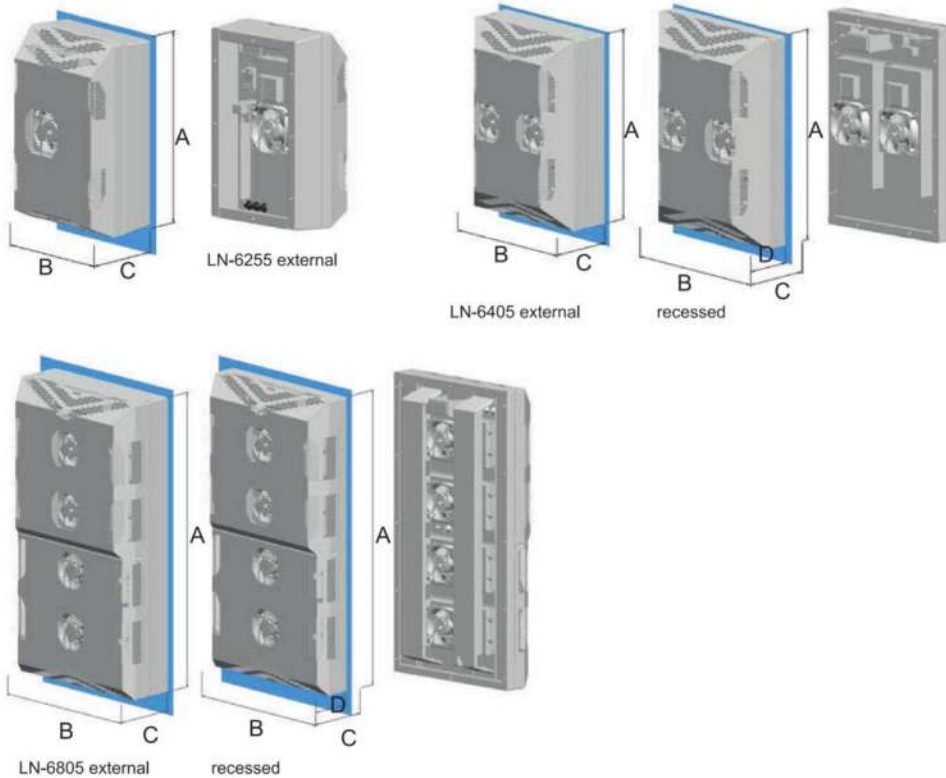
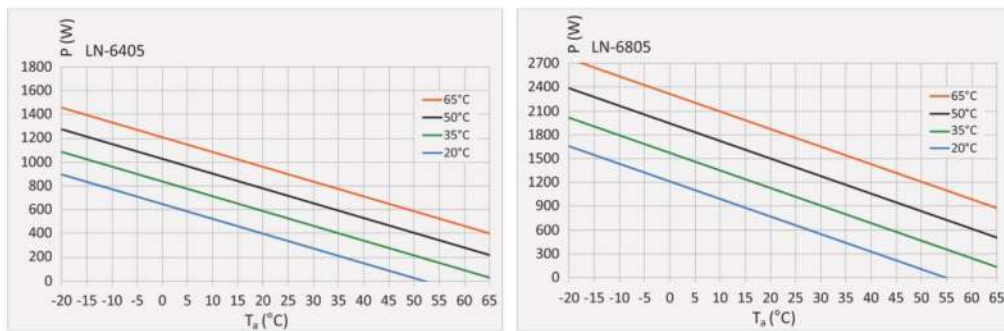
LN-6405, LN-6805				
Type	LN-6405		LN-6805	
Order number recessed	LN-6405-3		LN-6805-3	
Order number with frame	LN-6405-5		LN-6805-5	
Cooling capacity L35L35	400 W		800 W	
Operating temperature range	-20°C - +65°C			
Setting range	+20°C - +50°C (cooling)			
Ambient / cabinet air flow	240 / 240 m³/h		480 / 480 m³/h	
Mounting	recessed / external (with frame)			
Dimensions A x B x C (D) recessed	600 x 432 x 202 (138) mm		972 x 514 x 200 (138) mm	
Dimensions A x B x C with frame	600 x 432 x 208 mm		972 x 514 x 208 mm	
Housing material	Stainless steel 304 (V2A)			
Weight (recessed / with frame)	34 / 37 kg		66 / 70 kg	
	ELECTRICAL DATA			
Voltage / Frequency	120 - 230 V AC ~ 50/60 Hz			
Current L35L35	3.9 A @ 120 V	2.0 A @ 230 V	7.7 A @ 120 V	4.0 A @ 230 V
Starting current	5.8 A @ 120 V	3.0 A @ 230 V	11.6 A @ 120 V	6.0 A @ 230 V
Max. current	4.0 A @ 120 V	2.1 A @ 230 V	8.0 A @ 120 V	4.2 A @ 230 V
Nominal power L35L35	460 W		930 W	
Max. power	480 W		960 W	
Fuse rating	6 A (T)	4 A (T)	12 A (T)	7 A (T)
Connection	Connection terminal block			
IP protection to IEC 60 529	IP 66			
Certification	CE, RoHS			
* Depending on the mounting situation the condensation management may need to be considered and possibly adjusted.				

* Depending on the mounting situation the condensation management may need to be considered and possibly adjusted.

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure
Thermoelectric Coolers - Peltier Device

LN-6405, LN-6805 - Performance Graphs



19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Accessories



The assembly is front assembly to the equipment mounting rails. For allowing the convection of heated air inside cabinets, the shelves are structured with ventilation slots. Supply is in RAL 9005 Black and RAL 7035 Light Grey colors. From steel material, with high technology bending strengthening accessory, load capacity 15 kgs.

RACK MOUNT SHELVES 2 POINT FIXING	Logistics Data								COMPATIBLE WITH	
									19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight Kgs	Product Gross Weight Kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight Kgs		600x450	600x600
LN-RAF-RMO-1U20-CC 1U D=200mm 19" rack mount shelf, 2 point fixing, for all cabinets at 19" provision, load capacity 15 kgs.	482x200x44	510x240x50	0,9	1,1	10	545x425x400	13	•	•	
LN-RAF-RMO-1U25-CC 1U D=250mm 19" rack mount shelf, 2 point fixing, for all cabinets at 19" provision, load capacity 15 kgs.	482x250x44	510x280x50	1,1	1,3	10	545x425x400	15	•	•	
LN-RAF-RMO-1U30-CC 1U D=300mm 19" rack mount shelf, 2 point fixing, for all cabinets at 19" provision, load capacity 15 kgs.	482x300x44	505x305x50	1,3	1,6	9	545x425x400	17	•	•	
LN-RAF-RMO-1U40-CC 1U D=400mm 19" rack mount shelf, 2 point fixing, for all cabinets at 19" provision, load capacity 15 kgs.	482x400x44	515x415x55	1,7	2,1	7	545x425x400	14	-	•	
LN-RAF-RMO-2U35-CC 2U D=350mm 19" rack mount shelf, 2 point fixing, for all cabinets at 19" provision, load capacity 15 kgs.	482x350x88	510x360x90	2,1	2,4	4	545x425x400	11	•	•	

* CC= Color Code, LG Light Grey RAL 7035, BL Black RAL 9005, customers to define while ordering.



4 pcs grounding wires, 4 mm diameter yellow and green, 40 cm long, for purpose of main earth grounding.

GROUNDING SETS	Logistics Data								COMPATIBLE WITH	
									19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight Kgs	Product Gross Weight Kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight Kgs		600x450	600x600
LN-DGR-TPR-SL40-XX Grounding Set, 6 grounding point, 4pcs x 4 mm diameter x 40cm long yellow/green wires, for basic grounding of cabinet chassis and panels.	260x55x50	260x55x50	0,2	0,2	30	560x425x122	7,5	•	•	
LN-DGR-TPR-1U10-CC 19" rack mount 1U Grounding Set, 10 grounding point, 4 pcs x 4 mm diameter x 40 cm long yellow/green wires, can be installed at any U height for all cabinet models, 4pcs set of M6 fixing elements.	482x35x44	500x45x50	0,4	0,45	1	500x45x50	0,45	•	•	

* CC= Color Code, LG Light Grey RAL 7035, BL Black RAL 9005, customers to define while ordering.

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Accessories

Horizontal cable management segment accessories are for the cable management inside the cabinet, for intend of carrying the cables into the final connection point. have types of 1/2U, 1U, 2U, brushed type, ring type, with cover plates. Supply is in RAL 9005 Black and RAL 7035 Light Grey colors.

HORIZONTAL CABLE MANAGEMENT ACCESSORIES		Logistics Data							COMPATIBLE WITH	
Product Picture	Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	600x450	600x600
	LN-KDG-YKD-1UKN-CC 1U 19" cable management panel 5 rings	482x72x44	490x80x50	0,32	0,35	32	545x425x400	12,85	•	•
	LN-KDG-YKD-1UKT-CC 1U 19" cable management panel, channel type, removable front cover plate with clips	482x75x44	490x80x50	0,51	0,55	32	545x425x400	19,20	•	•
	LN-KDG-YKD-1UKZ-CC 1U 19" cable management panel, channel type, removable insert type sliding cover plate	482x72x44	490x80x50	0,68	0,72	32	545x425x400	24,10	•	•
	LN-KDG-YKD-1UFC-CC 1U 19" cable management panel for patchcord entry, brushed type	482x12x44	490x20x50	0,25	0,29	40	560x425x122	13,50	•	•
	LN-KDG-YKD-1UFO-CC 1U 19" cable management panel for patchcord entry, brushed type, with L rear bend patchcord holder and tie up panel	482x112x44	490x135x50	0,58	0,76	20	545x425x400	17,00	•	•
	LN-KDG-YKD-05FC-CC 1/2U 19" cable management panel for patchcord entry, brushed stripe around the patchcord entry	482x12x22	490x135x50	0,45	0,64	20	545x425x400	14,00	•	•
	LN-KDG-YKD-2UKN-CC 2U 19" cable management panel 5 rings	482x72x88	490x85x95	0,65	0,72	16	545x425x400	13,00	•	•
	LN-KDG-YKD-2UKA-CC 2U 19" cable management panel, channel type, removable angled front cover plate, front cover plate is toolless	482x75x88	490x85x95	1,03	1,12	16	545x425x400	20,00	•	•
	LN-KDG-YKD-2UKZ-CC 2U 19" cable management panel, channel type removable insert type sliding cover plate	482x72x88	490x85x95	1,35	1,47	16	545x425x400	25,50	•	•

* CC= Color Code, LG Light Grey RAL 7035, BL Black RAL 9005, customers to define while ordering

19" SAFEbox IP55 Indoor-Outdoor Cabinets, Enclosures and Accessories

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Accessories



3U 19" DIN RAIL integrated, electrical distribution box supply is in RAL 7035 Light Grey and RAL 9005 Black colors. At a capacity of 21 modules. Front opening is covered with PVC module cover plates can be trimmed as per used capacity.

3U 19" ELECTRICAL DISTRIBUTION BOX and ACCESSORIES	Logistics Data							COMPATIBLE WITH	
	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description								600x450	600x600
LN-PRZ-MOD-3U15-CC 3U 19" electrical distribution box 21 module capacity	482x123x133	500x150x155	2,59	2,89	4	545x425x400	13,6	•	•
LN-PRZ-SGT-316A-XX CCT breaker, 3 phase, 3x16A 220/380V AC	-	-	-	-	-	-	-	•	•
LN-PRZ-SGT-116A-XX CCT breaker 1 phase 1x16A 220V AC	-	-	-	-	-	-	-	•	•
LN-PRZ-SCK-SSRM-XX Schuko socket, rail type, 250V AC, 16A	-	-	-	-	-	-	-	•	•

* CC= Color Code, LG Light Grey RAL 7035, BL Black RAL 9005, customers to define while ordering.



Led lighting module 12V DC power with 100-240V AC power adapter with motion detector IR sensor 19" 1/2U. Magnet equipped can be attached to any metallic part of enclosure with its magnets. That allows serviceability inside cabinet/enclosure. 6000 Kelvin illumination.

SENSORED LIGHTING MODULE	Logistics Data							COMPATIBLE WITH	
	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
Part Number and Product Description								600x450	600x600
LN-DGR-AYD-1UOT-XX Lighting module 1/2U 19", motion sensor equipped automatically operating once doors are open, LED LIGHTING, magnet equipped 100-240V AC	482x35x44	500x150x55	0,48	0,65	16	545x425x400	10,4	•	•



19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Accessories

Aluminium housing, different types and features, power distribution strips are CE marked. DIN49440 Schuko types, IEC320 C13 types, BS1363 UK socket types, lighted on/off switched, 16A cct breaker type, surge protection types are available. A wide accessory portfolio is available, possible to configure special and specific product models with different socket types and qtls for projects.

POWER STRIPES ALUMINIUM HOUSING		Logistics Data								COMPATIBLE WITH	
Product Picture	Part Number and Product Description	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	19" SAFEbox Indoor-Outdoor Cabinet Enclosure		
									600x450	600x600	
	LN-PRZ-SGT-1U6P-SC 6xDIN49440 socket Schuko power strip, 19" 1U, aluminium housing, 1x16A cct breaker, 4000 Watt, 250V AC, 3x1.5 mm², 2.5m cable, DIN 49441 plug, CE approval	482x44x44	500x50x120	1	1,1	27	545x425x400	31	•	•	
	LN-PRZ-SGT-2U9P-SC 9xDIN49440 socket Schuko power strip, 19" 2U, aluminium housing 1x16A cct breaker, 4000 Watt, 250V AC, 3x1.5 mm², 2.5m cable, DIN 49441 plug, CE mark	482x44x88	500x100x120	1,5	1,7	12	545x425x400	22	•	•	
	LN-PRZ-AKK-1U6P-SC 6xDIN49440 socket Schuko surge protection power strip, 19" 1U, aluminium housing, 16A lighted on/off switched, 4000 Watt, 250V AC, 3x1.5 mm², 2.5m cable, DIN 49441 plug, CE approval	482x44x44	500x50x120	1	1,1	27	545x425x400	31	•	•	
	LN-PRZ-ONF-1U6P-UK 6xBS1363 UK socket power strip, 19" 1U, aluminium housing, lighted on/off switched, 13A 3250 Watt, 250V AC, 3x1.5 mm², 2.5m cable, 13A BS1363 plug, CE mark.	482x44x44	500x100x120	1,2	1,4	24	545x425x400	34	•	•	
	LN-PRZ-SGT-1U6P-IE 6xIEC 320 C13 socket power stripe, 19" aluminium housing, 1x16A cct breaker, 4000 Watt, 250V AC, 2.5m cable, DIN 49441 plug, CE approval	482x44x44	500x50x120	1	1,1	27	545x425x400	31	•	•	
	LN-PRZ-ONF-1U8P-SC 8xDIN49440 socket Schuko power strip, 19" 1U, aluminium housing, 16A lighted on/off switched, 4000 Watt, 250V AC, 3x1.5 mm², 2.5m cable, DIN 49441 plug, CE approval	482x44x44	500x50x120	1,1	1,2	27	545x425x400	34	•	•	

For more information or other models please have a look at PDU brochures or website links at website at www.lande.com.tr

19" SAFEbox IP55 Indoor-Outdoor Cabinets, Enclosures and Accessories

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Accessories



Ready pre-installed, plug-in and run style, with 0-60°C operating analogue thermostat switch and plugs. Each fan has an air flow capacity of 2,63-3,03 cbm/min. Fan technical data: 13,8/11, 8W, 220/240 VAC, 50/60 Hz, 0,14/0, 12A, 2550/2750 rpm 43-47 dB-A noise level. Fan life: 50.000 hours at 40°C.

FAN MODULES with ANALOGUE THERMOSTAT	Logistics Data							COMPATIBLE WITH	
	Product Dimensions WxDxH mm	Pack Dimensions WxDxH mm	Product Net Weight kgs	Product Gross Weight kgs	QTY in Box pcs	Box Dimensions WxDxH mm	Box Gross Weight kgs	19" SAFEbox Indoor-Outdoor Cabinet Enclosure	
LN-FAN-THM-1FWMIP-LG 1 fan module thermostat switched, filtered for SAFEbox IP55 Cabinets	346x175x50	380x160x60	1,53	1,76	15	545x425x400	28,2	•	•
LN-FAN-THM-1FWMIP-LG-48 Fan module thermostat switched, filtered for SAFEbox IP55 Cabinets, 48V DC	346x175x50	380x160x60	1,53	1,76	15	545x425x400	28,2	•	•
LN-FAN-THM-2FWMIP-LG 2 fan module thermostat switched, filtered for SAFEbox IP55 Cabinets	346x175x50	380x160x60	1,97	2,20	15	545x425x400	34,9	•	•
LN-FAN-THM-2FWMIP-LG-48 Fan module thermostat switched, filtered for SAFEbox IP55 Cabinets, 48V DC	346x175x50	380x160x60	1,97	2,20	15	545x425x400	34,9	•	•

19" SAFEbox IP55

Indoor - Outdoor Cabinet Enclosure

Lacquer UV printing any art design required for your project demands, fits to environment, fits to topology and deployment alignment of your projects. Any kind of design, or letters/texts can be applied on front door.

Lacquering is needed for protection against UV effect coming from sun radiation. You imagine and we can design it. Lande can provide art design application from our in housed marketing department.



19" SAFEbox IP55

Our Recommended Products

Environmental Monitoring and Management System



A full range of Environmental Management System modules are available, standalone or Networked to allow local or remote monitoring which allows Administrators to effectively manage your valuable assets, options for Camera's, Smoke sensors, Temperature and Humidity sensors, Moisture Sensors, and access sensors.

Advantages, Remote monitoring of multiple sites, High security and internal audit capability, Corrective and preventive actions, Instant and retrospective reporting and analysis.

Access Control Systems



A full of Access Control and Locking systems available for to whole Lande range, from round key locked single point, swing lock three-point locking, combination locks, Keypad locking, RFID Card reader locking, Finger print readers and Retina (Eye) Reader Locking.

If integrated with Lande EMS systems, remote monitor locking can be achieved.

Power Distribution Unit



A complete range of Power Distribution Units are available from Basic economical units or full remote monitoring intelligent Units, IEC320 C13, BS 3pin UK type, DIN 49440 Schuko, 16A Breaker and Surge protection, 19" Horizontal and Vertical units either basic on/off switch to intelligent units with built in network point to allow multiple remote monitoring of various sites are available.



Test Laboratuvarları

Koruma Derecesinin Doğrulanması

Verification of Degree of Protection



CONTACT DETAILS

Headquarters

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Test Laboratuvarları

Koruma Derecesinin Doğrulanması

Verification of Degree of Protection



LANDE ENDÜSTRİYEL METAL ÜRÜNLER SAN. ve TİC. A.Ş.

IDENTITY DECLARATION

LN-SBO -IP5507U6045 -LG, LN-SBO -IP5509U6045-LG, LN-SBO -IP5512U6045-LG, LN-SBO -IP55016U6045-LG, LN-SBO -IP5520U6045-LG, LN-SBO -IP5522U6045-LG, LN-SBO -IP5524U6045-LG, LN-SBO -IP5526U6045-LG Complete technical scope of the SafeBox Outdoor model (e.g. design, features, critical components, electrical construction, etc.), LN-SBO -IP5512U6060-LG, LN-SBO -IP55016U6060-LG, LN-SBO -IP5520U6060-LG, LN-SBO -IP5522U6060-LG, LN-SBO -IP5524U6060-LG, LN-SBO -IP5526U6060-LG model product

We declare that it is the same as .

Reference Model: LN-SBO -IP55-07U6060 Product Family

Company stamp

Authorized Signature

**LANDE ENDÜSTRİYEL METAL
ÜRÜNLER SAN. VE TİC. A.Ş.**
Merve Mahallesi Gazi Caddesi No:17
Sancaktepe / İSTANBUL
Mersis No: 1000000469851492
Sultanbeyli Vergi Dairesi: 608 080 9866

19"SAFEbox Series IP 55 Outdoor Cabinets Enclosure W=600 mm D= 450 /600 mm

Product Number	Product Description	Size WxDxH	h Size in U	h in mm	H mm, overall without feet and /castor	Width Overall mm	Width Rail to Rail	Depth Overall mm	Depth Shipping Cont. Rail to Rail mm	QTY IN PACKAGE	PACKAGING DIMENSIONS WxDxH Standard NET Weight of Product kgs	QTY IN PALLET	PALLET DIMENSIONS WxDxH	Pallet Weight kgs	
LN-SBO-IP5507U6045-LG	7U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x450	7U	311	450	600	19"	450	345	600x450x510	31	32	16	1300x1300x2200	532
LN-SBO-IP5509U6045-LG	9U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x579	9U	400	579	600	19"	450	345	600x450x600	33	34	16	1300x1300x2550	554
LN-SBO-IP5512U6045-LG	12U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x713	12U	533	713	600	19"	450	345	600x450x730	37	38	12	1300x1300x2950	476
LN-SBO-IP5516U6045-LG	16U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x851	16U	711	851	600	19"	450	345	600x450x910	41	43	8	1300x1300x3000	365
LN-SBO-IP5520U6045-LG	20U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1088	20U	889	1088	600	19"	450	345	600x450x1090	45	46	8	1300x1300x3730	414
LN-SBO-IP5522U6045-LG	22U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1157	22U	977	1157	600	19"	450	345	600x450x1160	51	52	8	1300x1300x3980	436
LN-SBO-IP5524U6045-LG	24U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1245	24U	1088	1245	600	19"	450	345	600x450x1255	53	54	8	1300x1300x4140	455
LN-SBO-IP5526U6045-LG	26U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=450 mm	600x450x1334	26U	1155	1334	600	19"	450	345	600x450x1355	55	57	8	1300x1300x4210	462
LN-SBO-IP5507U6060-LG	7U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x450	7U	311	450	600	19"	600	495	600x600x510	31	32	16	1300x1300x2200	633
LN-SBO-IP5509U6060-LG	9U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x579	9U	400	579	600	19"	600	495	600x600x600	33	34	16	1300x1300x2550	651
LN-SBO-IP5512U6060-LG	12U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x713	12U	533	713	600	19"	600	495	600x600x730	37	38	12	1300x1300x2950	593
LN-SBO-IP5516U6060-LG	16U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x851	16U	711	851	600	19"	600	495	600x600x910	41	43	8	1300x1300x3000	433
LN-SBO-IP5520U6060-LG	20U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1088	20U	889	1088	600	19"	600	495	600x600x1090	45	46	8	1300x1300x3730	495
LN-SBO-IP5522U6060-LG	22U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1157	22U	977	1157	600	19"	600	495	600x600x1160	51	52	8	1300x1300x3980	520
LN-SBO-IP5524U6060-LG	24U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1245	24U	1088	1245	600	19"	600	495	600x600x1255	53	54	8	1300x1300x4140	545
LN-SBO-IP5526U6060-LG	26U 19" SafeBox IP 55 outdoor cabinet enclosure W=600 mm D=600 mm	600x600x1334	26U	1155	1334	600	19"	600	495	600x600x1355	55	57	8	1300x1300x4210	570