

OLIRack[®]

OUTDOOR WALL-MOUNTED ENCLOSURES



OLIVETEL SA

Contents

General information, standards and CE compliance	1
Introduction	1
Standards and CE compliance	1
Range and Configurations	2
Standard Setup	2
Choose the most suitable for your project	2
Environment / Corrosion Classes and Raw Materials	3
IP Code Table	3
Flexibility, Productivity, Quality and Safety	5
Flexibility	5
Some functional Advantages	5
Quality and safety	5
Illustrative photos	6
	7
Scalability and Accessories	8

OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

General information, standards and CE compliance

INTRODUCTION

With over two decades of evolution, due to the ongoing experience with Designers and IT Service Integrators, the **OLIRACK OUTDOOR WALL_MOUNTED CABINETS** was designed to outdoor installations in several contexts.

Characterized by its high efficiency, quality, robustness and security, was designed to provide a natural cooling and control of condensation, prevent access by unqualified persons and protect the contents from weather and vandalism acts. Its functionality and scalability, offers to your project, a wide range of configurations and options such air conditioning systems, access control and remote monitoring.

The interior can be fully configurable, which is a huge advantage to your projects when it is necessary to create and develop installation layouts.



STANDARDS AND CE COMPLIANCE

- 19" according EIA 310 D / DIN 41 494 / IEC 60 297
- IP55 and IP65 according DIN 400 50 / IEC 60 529
- European directives 2006/95/CE (Low Voltage Electrical Equipment)
- European directives 98/13/CE (telecommunications terminal equipment)

OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

Range and Configurations

Besides the Standard Setup presented, the OUTDOORS WALL-MOUNTED CABINETS can be manufactured from different raw materials, sizes and configurations.

U's	Height (mm)	Width (mm)	Depth (mm)	
8	460	600	500	600
12	682	600	500	600
16	860	600	500	600
20	1038	600	500	600

STANDARD SETUP

Built in Galvanized Steel Plate.



- (1x) Chassis structure
- (1x) Top Module prepared to Ventilation System
- (1x) Front Door
 - Sealing gasket
 - (1x) Door Lock w/ key
 - Ventilation grids to natural ventilation
- (2x) Filters to condensation control and ventilation impurities
 - (1x) Door retainer (opening limiter and auto-block system)
- (2x) 19" Rack Mounting Profiles w/Adjustable depth system
- (1x) Bottom prepared for application of conical cable glands
- COLOUR : RAL 7035

CHOOSE THE MOST SUITABLE FOR YOUR PROJECT

Environmental conditions where the units will be installed, are very important to determine the raw materials and appropriate treatments. All models can be manufactured from various raw materials, including **Galvanized Steel Plate, Aluminium Plate with Chromate Treatment and Stainless Steel Plate**, leading to a distinct corrosion protection and durability.

OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

Environment / Corrosion Classes and Raw Materials

OLIVETEL SA offers the following illustrative table of Corrosion Classes and Raw Materials for decision support, which will allow you to cross the specificities and needs of your project in terms of environmental conditions, and decide the most appropriate for your project. The durability is dependent on surface treatments added to the materials, conditions of installation and use of equipment.

Corrosion classes >	Environment C1 VERY LOW			Environment C2 LOW			Environment C3 MIDDLE			Environment C4 HIGH			Environment C5 VERY HIGH		
ISO 12944 Paints and varnishes Corrosion protection of steel structures by protective paint systems	Dry and desert environments			Rural areas with low pollution			Urban, industrial or coastal zone, with moderate pollution / low salinity			Industrial or coastal zone, with moderate salinity or near the sea			Coastal or industrial areas with high humidity and / or Salinity, aggressive environment. / near the sea		
Estimated durability (L)OW / (M)IDDLE / (H)IGH	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
	2-5 Years	5-15 Years	>15 Years	2-5 Years	5-15 Years	>15 Years	2-5 Years	5-15 Years	>15 Years	2-5 Years	5-15 Years	>15 Years	2-5 Years	5-15 Years	>15 Years
Carbon steel plate															
Galvanized sheet steel															
Aluminium plate with Chroming Surface treatment															
Stainless steel sheet															

The table is not directly associated to specific Olivetel products or their warranty, it provides only generic and empirical data to illustrate the behaviour of the different raw materials when exposed to several environments.

Regardless of the characteristics of raw materials and additional treatments for corrosion prevention, the durability of materials and products are always influenced by their exposure to uncertain and dynamic factors of natural and human characteristics, as well the preventive maintenance practices, with special attention to the periodic cleaning to minimize agents that promote corrosion, due to exposure to pollution and salinity.


IP Code Table

The IP Code, International Protection Marking, IEC standard 60529, sometimes interpreted as Ingress Protection Marking classifies and rates the degree of protection provided against the intrusion (including body parts such as hands and fingers), dust, accidental contact, and water by mechanical casings and electrical enclosures. It is published by the International Electro-technical Commission (IEC).

The materials, manufacturing process, requirements for sealing of the units and investment, will be more demanding as the degree of protection is highest.

OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

The base configuration presented by OLIVETEL SA has an **IP55 degree of protection**, chosen by the majority of projects at the time of investment / benefit analysis. However, for a better analysis of your installation requirements, we provide below a table of IP protection classes.

(DIN 60529) Ingress Protection (IP) Rating			
Protection against solid object		Protection against liquid object	
0	<u>No protection</u>	0	<u>No protection against liquid object</u>
1	<u>Ingress of solid object diameter 50 mm is protected</u>	1	<u>Protection against water drop</u> No harmful effect of vertical water drip By using water drip tool vertically dropping water for 10 min
2	<u>Ingress of solid object diameter 12.5 mm is protected</u>	2	<u>Protection against water drop</u> No harmful effect of water drip from vertical direction when the enclosure is tilted at 15° from its normal position By using water drip tool, move it in angle of 15°, dripping water for 10 min (2.5 min per direction)
3	<u>Ingress of solid object diameter 2.5 mm is totally protected</u>	3	<u>Protection against water spray</u> No harmful effect of water spray at any angle up to 60° from the vertical direction By using tool, spraying water vertically in angle up to 60° for 10 min
4	<u>Ingress of solid object diameter 1.0 mm is totally protected</u>	4	<u>Protection from water splash</u> No harmful effect of water spray from all direction By using tool, splashing water from all direction for 10 min
5	<u>Protected against harmful dust</u>	5	<u>Protection from water jets</u> No harmful effect of water splash from all direction By using tool, Jet the water from all direction to the object surface for 1 m ² /min, at least for 3 min in total.
6	<u>Totally protected against dust</u>	6	<u>Protection from strong water jets</u> No harmful effect of strong water jets from all direction By using tool, Jet the water from all direction to the object surface for 1 m ² /min, at least for 3 min in total.
 OLIVETEL SA		7	<u>Protection from water dip</u> No harmful effect of water dip in certain level of pressure and length of time Dip into 1 m depth water for 30 min
		8	<u>Protection from water sink</u> No harmful effect against water sink which the condition is decided between customer & manufacturer (in severer condition comparing to no.7) Should be decided between customer and manufacturer

OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

Flexibility, Productivity, Quality and Safety

Time is a critical factor in installation projects, as well as the quality of the components that are handled. All models were conceived and designed to make a productive and safe installation. For this purpose, are included in OLIRACK Outdoors Wall-mounted Cabinets a set of details, that are the result of over 20 years of expertise, providing installation projects.

FLEXIBILITY

- Modular concept that allows indoor and outdoor settings
- Manufactured in various sizes, in addition to those presented in Range and Configurations Table
- Manufactured according 19" (EIA 310 D / DIN 41 494 / IEC 60 297) or 21" (ETS 300 119-3) or without Rack Mounting Profiles
- Manufactured in various raw materials, through the requirements of projects
- Adjustments / Integration of new and specific accessories for the projects

SOME FUNCTIONAL ADVANTAGES

- Doors with T handgrip and lock
- Removable Top through the interior of the cabinet, for access and maintenance
- Closed Top and prepared for integration of forced ventilation
- Bottom prepared for application of conical cable glands
- Rack Mounting Profiles with adjustable depth system

QUALITY AND SAFETY

- Ground connectivity to the chassis with M5 screw terminals
- Surface treatment with 80 mM of epoxy-polyester textured w/polymerization, accurate to industrial and outdoor application, with high mechanical resistance
- Totally free from hazardous materials, Manufacture according to European Directive
- CE conformity marking, stamp of quality and tightness level tests
- Serial Number for monitoring and tracking the installed sites



OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

Illustrative photos

OLIRack[®]



OLIRACK – OUTDOOR WALL-MOUNTED CABINETS



OLIRACK – OUTDOOR WALL-MOUNTED CABINETS

Scalability and Accessories

The ability to increase value in your installation, was previously thought in the design and manufacturing process, so scalability is ensured. A wide range of components and accessories are available:

- Ventilation Systems
- Filters
- Door sensors to check open doors
- Document Holder
- Internal metallic installation plates
- Air-conditioning systems
- Bottom Bases with specific drilling to cable gland, roxtec and brush strip cable entry
- Fixed or Slide Shelf
- Blanking panels or perforate panels (U's)
- Lighting Kits
- PDU and Power strips (simple or w / switch)
- Electrical box chassis / box
- Equipotentialization strip
- Etc.

For a better understanding of existing solutions, we advise you to consult the table of existing accessories OLIRACK on our website at: <http://www.olivetel.pt/catalogo/?cat=34> or contact our Technical / Commercial area for personalized and assertive advice.

Company Head Office Information

OLIVETEL SA

Rua da Cruz nº66 Naves Industriais A-B-C-D – Algueirão – 2775-663 Mem Martins

Tel (+351) 21 922 98 40

Fax (+351) 21 922 98 50

Email: comercial@olivetel.pt

www.olivetel.pt

