**FREE STANDING CABINET TECHNICAL SPECIFICATION**

1. **GENERAL CONDITIONS**

19” free standing rack cabinet must have ISO 9001: 2015 quality management system certificate and TSE certificate including the standards of EN 61587-1, IEC 60917, IEC 60297. Brand of the product, commercial title, height, width and depth information must be placed on the TSE document.

1. **DIMENSIONS**

Complies with IEC 60297 standard. Must be (16U/20U/22U/26U/32U/36U/39U/42U/45U/47U) height, (600 mm. and 780 mm.) width and (600 mm., 800 mm. and 1000 mm.) depth.

1. **LOAD CARRYING CAPACITY**

Must be 1000 kg.

1. **MAIN PROFILE STRUCTURE**

The main profile must have an aesthetic appearance and a structure that will increase the mechanical resistance. Each profile must consist of 6 bends in 45˚ angle.

To avoid loss of ventilation system space, contact with the top cover metal sheet surface must be kept at least in position and fixed with 4 corner contacts. In addition, the surrounding of the top cover must be suitable for air flow by evacuating the slot. There must be one cable entry for 600 mm.(width) cabinets and two for 800 mm.(width) cabinets.

1. **TOP AND BOTTOM CHASIS**

Top and bottom chasis must be manufactured to fix screw connection and profile covers with corner profiles and 4 pieces of M5 screws in each corner must be fixed with 5x13 mm threaded screws. Top chasis can be equipped with 6 pcs of fan(for a depth of 1000 mm).

1. **FRONT AND REAR COVERS**

According to the EN 12150-1:2000 standard, front door must have a metal frame, tempered, anti-static, secure, smoked glass(4 mm thickness), decorative lane structure.

The metal frame of the front glasses must be screwed and reinforced with high density polyurethane glue.
It must have different options (double glass, complete metal frame, 63% and 80% single and double opening perforation, single opening complete metal). The front door must be 115˚ open, detachable and lockable.

In the standard configuration, the metal back panel must be lockable with a slide lock and opened with a lock key. It must have different options (single and double opening metal with cable entry, 63% and 80% single and double opening perforation, single opening complete metal).

1. **SIDE COVERS/PANELS**

The side panels must be lockable with a slide lock and opened with a lock key.

1. **CABLE ENTRIES**

On the top and bottom chassis; there must be one piece of brushed cable entries (50x300 mm) in 600 mm. cabinets and two pieces of 50x300 mm. brushed cable entries and one piece of 80x300 mm. brushed cable entry in 800 mm. cabinets.

1. **19” UPRIGHTS AND SIDE ARMS**

The 19" (in.) device mounting bracket (2 in front and 2 in rear) can be adjusted along the depth and must be a part of the cabinet interior configuration. 1,5 mm galvanized structure must be in 3 times folded and can be adjusted at the distance U along the height of the cabinet.

1. **HINGES**

With spring hinge system must be easy to dismount.

1. **COLOR**

It must be black (RAL 9005) or light grey (RAL 7035) as standard.

1. **DOCUMENTARY MATERIALS USED IN CABINET MANUFACTURING**

**Sheet Steel:** EN 10346: 20015 DX51D+Z, EN 10130: 2006 DC01

**Electrostatic Powder Coating:** ISO6860, ISO2409, ISO1520, ISO2815, ISO6272, ISO7253 ISO6270-1, ISO2812**,** ISO 9001, RoHS

**Glass:** TS EN 12150-1, TS EN 1863-1

**Lock:** IEC 62474, REACH, RoHS

**Castors:** ISO 9001, TS EN 12532, RoHS

**Fan:** IEC 60335-2-80:2002, IEC 60335-1:2010

1. **TESTS AND CERTIFICATES**

**Resistance to environmental conditions and corrosion;**

**Stability, mechanical safety, resistance to static, dynamic and mechanical loads;**

**Resistance to vibration, mechanical shock and impact;**

**Degrees of mechanical protection provided by the enclosure ( IP20 );**

**Electrical grounding continuity;**

**Fire and flame resistance;**

Have been tested according to the standard “EN 61587-1” with the normative standards: IEC 60917, IEC 60297, IEC 60068-1, IEC 60068-2, IEC 60695-11-10, IEC 60950-1 contained and certified by the notified organizations.

**TSE Certificate No:**003788-TSE-08/02

**EAC** **Certificate No:** 0443637, 0776963, 0345864, 0401678, 0776653

**Corrosion:** ISO 9227 standard complied by the test report METALTEK AB-0547-T / 0157-1

**Transport:** ETS 300 019-1-2 Class 2.3 comply with internal testing

**Storage:** ETS 300 019-1-1 Class 1.2 comply with internal testing

**Surface Finish:** Electrostatic powder coated c/with surface treatment, 80 +/-5 micron paint thickness

1. **ACCESSORIES**

**Fan System:** The setting range must be between 0-35 ºC with digital or analog 2, 4 and 6(only for 1000 mm. depth cabinets) pieces fan-controlled thermostat units. It must be suitable for installation inside the cabinet with electric cable and internal wiring. Every fan at 50 Hz max. must have a noise level of 38 dB and 53 CFM airflow. It must have a CE certificate.

**Vertical cable organizer:** It must have a large internal volume that can protect all kind of electric and data cables and patch cords. Along 19 "uprights, the organizer must be attached to the sides and have cable entry holes.

**Vertical cable tray:** The galvanized coating must be perforated to provide length and cable installation along the height of the cabinet.

**Caster and/or leveling feet:** The wheels must be movable in every direction and the front wheels must have a lockable structure. The load carrying capacity of each wheel and each leveling feet must be 250 kg.

**Fixed and sliding shelf:** Must be able to mount from 4 points (2 in front and 2 in rear). The load carrying capacity of fixed shelves are 50 kg. and 25 kg. for sliding shelves.

**Lighting fixture:** 19”, 1U, with ON/OFF switch, 220 Vac, automatic door with ON/OFF switch or LED with sensor.

**Grounding continuity:** In cabinet grounding continuity must comply with IEC 61010-1 standard. All metal components in the cabinet must be electrically connected with each other by 1 x 4 mm² grounding cables and grounding resistance between superficial components must be max. 0,1 ohm. For all doors, these grounding cable connections must be made with bolts and nuts. Grounding continuity between the 19" movable mounting profiles and the main body must be provided with the galvanized surfaces that is connected with screws each other.

**Floor fixing kit:** The floor fixing kit must be designed not to extend beyond the bottom area of ​​the cabinet. The cabinet must be fixed to the floor over the front / rear, right / left surface according to the needs of the area. The connection element shall consist of one part for each surface and the cabinet shall be fixed to the floor by connecting from two points. The floor fixing kit must be positioned between the cabinet and the floor. The structure must be steel construction and be made of galvanized sheet with min. 2 mm. of thickness.