**FREE STANDING CABINET TECHNICAL SPECIFICATION**

1. **GENERAL CONDITIONS**

19” free standing rack cabinet must have ISO 9001: 2008 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/44U/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 chasis; there must be one piece of brushed cable entry(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 it 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 : DIN EN 10130 – 99 Ereğli DC-01 6112, 7122, RoHS

Electrostatic powder coating : ISO 9001, ISO 2178, ISO 2813, I SO 6272, ISO 8130-5, ISO 8130-3, RoHS

Fan : ISO 9001, CE (89/336/EEC EMC, 73/23/EEC LVD), RoHS

Glass : ISO 9001, EN 12150 – 1: 2000 tempered and secure

Fixings: DIN 7985, DIN 965, DIN 7981, DIN 934, DIN 985, DIN 933, RoHS

Casters: TS EN 12530, TS EN 12532, RoHS

Lock: DIN 1743, DIN 53571, RoHS

1. **TESTS AND CERTIFICATES**

IP protection degree: EN61587-1 / 6.4, IEC60529, IEC60917 and IP20 according to IEC60297

1. **ACCESSORIES**

Fan System: The setting range must be between 0-35 ºC with digital or analog 2 or 4 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 galvanised 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.