**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 800 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.

Thanks to the perforated pagoda-style top hat, hot and cold air circulation must help passive ventilation. The gap between the hat and the frame is 9 mm.

1. **TOP AND BOTTOM CHASIS**

Top and bottom chassis which has twisted monoblock, welded and profile with internal locking design must have a structure that will increase the resistance and strength of the cabinet. Profiles must be manufactured to fix the bottom and top chassis with screws. It allows to install 4 fans max.

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% single and double opening perforation, single opening complete metal). The front door must be 115˚ open, detachable and lockable.

In the standard configuration, the back door must have a single or double opening complete metal with cable entry and an "O" type locking mechanism. It must have different options (63% single and double opening perforation, single opening complete metal). The rear door must be 115˚ open.

1. **SIDE COVERS/PANELS**

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

1. **BAYING KITS**

It must have a baying kit so that the cabinets can be joined side by side. The metal must be galvanized, light grey (RAL 7035) or black (RAL 9005).

1. **CABLE ENTRIES**

The cable entry of the bottom chasis must have a cable entry closure panel that can be movable to prevent dust ingress. The edge of the cable entry panel is covered with rubber and its movable structure makes it possible to place and secure the cables in the cabinet without damaging them. The cable entries must be produced on the back side of the 26U and above cabinets with one brushed (55x300 mm) at the top and bottom. In 800 mm. cabinets, there must be one sliding cable entry and 2 brushed cable entries with 80x300 mm. on the bottom chasis, 2 brushed cable entries with 55x300 mm. at the rear and 2 pieces on the top chasis.

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. “U” marking must be possible with 3 bends for 600x600 mm. and 600x800 mm. cabinets and 1 bend for 600x1000 mm. cabinets.

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**

Environment: EN61587-1 / 4.2, IEC60068-2-1, IEC60068-2-2, IEC60068-2-30, IEC60917 and IEC60297

Industrial Environment: EN61587-1 / 4.3, IEC60068-2-42, IEC60068-2-43, IEC60068-2-49, IEC60068-2-1,

IEC60917 and IEC60297

Statical mechanical structure load test: EN61587-1 / 5.2.1, IEC60917 and IEC60297

Statical mechanical structure stability: EN61587-1 / 5.2.2, IEC60917 and IEC60297

Dynamic load, vibration and mechanical stroke: EN61587-1 / 5.3.1, EN61587- / 5.3.3, IEC60917, C60297,

IEC62208

Grounding continuity: EN61587-1 / 6.2, IEC60917, IEC60297 and IEC 61010-1

Fire and flame resistance: EN61587-1 / 6.3, IEC60917 and IEC60297

Corrosion: ISO9227 and ASTM B 117-85, IEC60917 and IEC60297

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, analog or ON/OFF switch with 1, 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 cabinet must be fixed to the floor over the front / rear surface according to the needs of the area. The structure must be steel construction and be made of galvanized sheet with min. 2 mm. of thickness.