12U Cabinet [600*600]

A **12U 600x600 cabinet** is a standard 19-inch rack enclosure typically used for housing networking equipment, servers, and AV systems. Below is a representative datasheet based on industry standards for these dimensions.

Core Specifications

- **Capacity:** 12 Rack Units (12U)

- **Width:** 600 mm

- **Depth:** 600 mm

- **External Height:** Typically ranges from **600 mm to 645 mm** depending on the specific model (wall-mount vs. floor-standing).

- **Usable Internal Height:** 21 inches (approx. 533.4 mm).

- **Max Static Load:** 60 kg to 80 kg (for wall-mounted).

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Material & Construction

- **Material:** Cold-rolled steel (SPCC) with thicknesses typically 1.2 mm for the frame and 1.5 mm–2.0 mm for mounting angles.

- **Surface Finish:** Degreasing, pickling, phosphoric, and powder-coated paint (commonly **RAL 9005 Black** or **RAL 7035 Gray**).

- **Door:** Tempered glass front door (standard) or perforated metal for higher airflow, featuring a 180° opening angle and lock.

- **Panels:** Removable and lockable side panels for easy equipment access.

Technical Features

- **Mounting Profiles:** Two or four adjustable 19-inch mounting rails with U-marking for precise alignment.

- **Cable Management:** Cable entry ports located on the top and bottom panels (often with brush or plastic covers).

- **Cooling:** Pre-drilled holes for fan units (usually supports 1 or 2 fans) to manage heat dissipation.

- **Protection Rating:** Typically **IP20**, providing protection against solid objects larger than 12.5mm.

- **Grounding:** Integrated earthing screws/studs to ensure electrical safety.

Common Applications

- **LAN/Networking:** Housing switches, patch panels, and routers.

- **Security:** CCTV DVRs, NVRs, and power supplies.

- **Home/Office IT:** Small server deployments or centralized home automation controllers.