



**EQUIP / RACK**

Agni Instruments Engineers India Private Limited

Series

v-1

## Equipment Rack

19" Width 600 mm x Depth 600 mm RACK



**Static Load Capacity Enhanced - E**  
**Configuration: Up to 1400 kgs.**

### Compliances with Standards :

#### EN/IEC 60529-IP20 INGRESS PROTECTION PERFORMANCE

ISO 9001  
Quality Management System

EN 61587-1  
Mechanical Structures for  
Electronic Equipment

IEC 297-1, 19" Mounting  
IEC 297-2 Overall Cabinet Dimensions

EN IEC 62368-1 Audio/Video,  
Information and Communication  
Technology Equipment  
Part 1: Safety requirements

CE conform to  
EN 60950-1  
Information Technology  
Equipment, Safety,  
Part-1: General Requirement

**U Height: 12U, 16U, 18U, 20U, 24U, 26U,  
28U, 30U, 32U, 36U, 40U, 42U, 46U, 48U**

### Product Overview & Function

Agni Instruments Engineers India Private Limited

designs and manufactures a wide range of 19-inch enclosed equipment rack systems, developed in-house to meet the demanding requirements of industrial, telecom, IT, and instrumentation applications. These racks are engineered in strict compliance with international and European standards, ensuring global compatibility, structural reliability, and seamless interoperability with equipment from multiple manufacturers

Agni Equip Rack Series Networking Rack Enclosures with 19" W:600 mm x D:600 mm sizes, with max internal usable depth and 14 different height, gives a wide selection chart for users.



**COMPLIANCE**  
BS EN 61587-1

Page-1



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## Equipment Rack

**19" Width 600 mm x Depth 600 mm RACK**

### The Agni Equipment Rack Series

Offers a robust enclosure solution combining precision engineering standardized mounting interfaces and durable construction, making it suitable for both domestic and international installations. The design supports efficient equipment organization, easy access, and long-term operational stability in critical environments.

### Key Features & Benefits

- In-house manufactured for consistent quality and dimensional accuracy
- Compliance with international & European rack standards
- Wide range of U heights for system scalability
- Enclosed cabinet design for equipment protection
- Compatible with multi-purpose another equipment
- Metric fastening system for global installations
- Suitable for static or mobile installations



### Rack Heights Available in

The Agni Equip rack series is available in the following U height

AGNI EQIP-12UR	AGNI EQIP-16UR	AGNI EQIP-18UR	AGNI EQIP-20UR	AGNI EQIP-24UR	AGNI EQIP-12UR	AGNI EQIP-28UR
HEIGHT -12 U	HEIGHT -16 U	HEIGHT -18 U	HEIGHT -20 U	HEIGHT -24 U	HEIGHT -26 U	HEIGHT -28 U
HEIGHT -30 U	HEIGHT -32 U	HEIGHT -36 U	HEIGHT -40 U	HEIGHT -42 U	HEIGHT -46 U	HEIGHT -48 U
AGNI EQIP-30UR	AGNI EQIP-32UR	AGNI EQIP-36UR	AGNI EQIP-40UR	AGNI EQIP-42UR	AGNI EQIP-46R	AGNI EQIP-48UR

### Fit finish and mobility

Smooth powder-coated finish

Mounted on heavy-duty castor wheels lockable feature for mobility



RAL 7035 Light Grey

RAL 7016 Dark Grey

RAL 7021 Dark Grey

### Compliance with EN & International Standards

While the 19-inch rack standard originated from the American EIA specification, European and international norms ensure enhanced compatibility across global markets. Our racks conform to relevant standards including:

- EN 60297
- IEC 297-3-105
- EN 60529
- UL 2416 / UL 60950-1
- CSA-C22.2 NO 60950-1-07

These standards define mechanical interfaces, mounting practices, and protection requirements, ensuring that equipment from multiple manufacturers can be safely mounted and seamlessly integrated within the rack system. European norms typically mandate metric cage nuts and screws fasteners (e.g., 6 mm) and standardized mounting interfaces.



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Page-2



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## Equipment Rack

**19" Width 600 mm x Depth 600 mm RACK**

### Key Dimensions & Technical Specifications

#### Rack Width

Standard 19-inch equipment mounting width

Typical external dimensions: W 600 mm x D 600 mm

Note: 19 inches refers to the equipment front panel width, not the rack frame width



#### Rack Height U reference Measurement

Height is measured in Rack Units In U

1U = 1.75 inches 44.45 mm



#### Internal Mounting Spacing

Distance between mounting rails: approximately fitment of 19-inch equipment Mounting Hole Pattern

Vertical Hole pattern follows the standard repeating sequence:

Mounting Rail Spacing | Approx. 17.75 inches

0.5" – 0.625" – 0.625", matching the 1U spacing requirement

(commonly used in EN/European standards)

Tapped holes available as per EIA/US standards

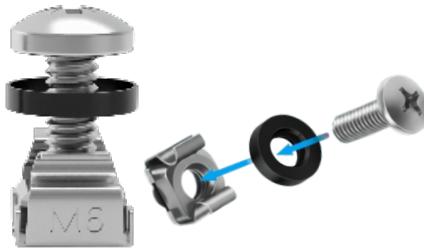


### Mounting Interface Accessories & Fastening

- 1 - Square holes compatible with cage nuts
- 2 - Ventilation cooling Fan tray with 4 no's Fan
- 3 - Blank tray
- 4 - Blank U -1, 2, 3, 4
- 5 - Mains power distribution unit
- 6 - Cable manager
- 7 - Side arms
- 8- Front 6mm screw with plastic collar
- 9 - Cable tie 4"6"8"9

### 1 Cage Nut

- 1 - Square holes compatible with cage nuts



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Page-3



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**Equipment Rack****Mounting Interface Accessories & Fastening****19" Width 600 mm x Depth 600 mm RACK****2 Fan Tray**

2 - Ventilation cooling Fan tray with 4 no's Fan

**3 Blank Tray**

3 - Blank tray

**4 Blank U-1,2,3,4**

4 - Blank U -1, 2, 3, 4

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Page-4

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**Equipment Rack****Mounting Interface Accessories & Fastening****19" Width 600 mm x Depth 600 mm RACK****5 Power Distribution Unit**

5 - Mains power distribution unit

**6 Cable manager**

6 - Cable manager

**7 Side Arms**

7 - Side arms

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Page-5



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**Equipment Rack****Mounting Interface Accessories & Fastening****19" Width 600 mm x Depth 600 mm RACK****8 Power Distribution Unit**

8 - Front 6mm screw with plastic collar

**9 Cable tie 4"6" 8" 9"**

9 - Cable tie 4"6"8"9

**Static Load Capacity Standard**  
Configuration: 600 kgs.**Static Load Capacity Enhanced (E)**  
Configuration: Up to 1000 kgs.  
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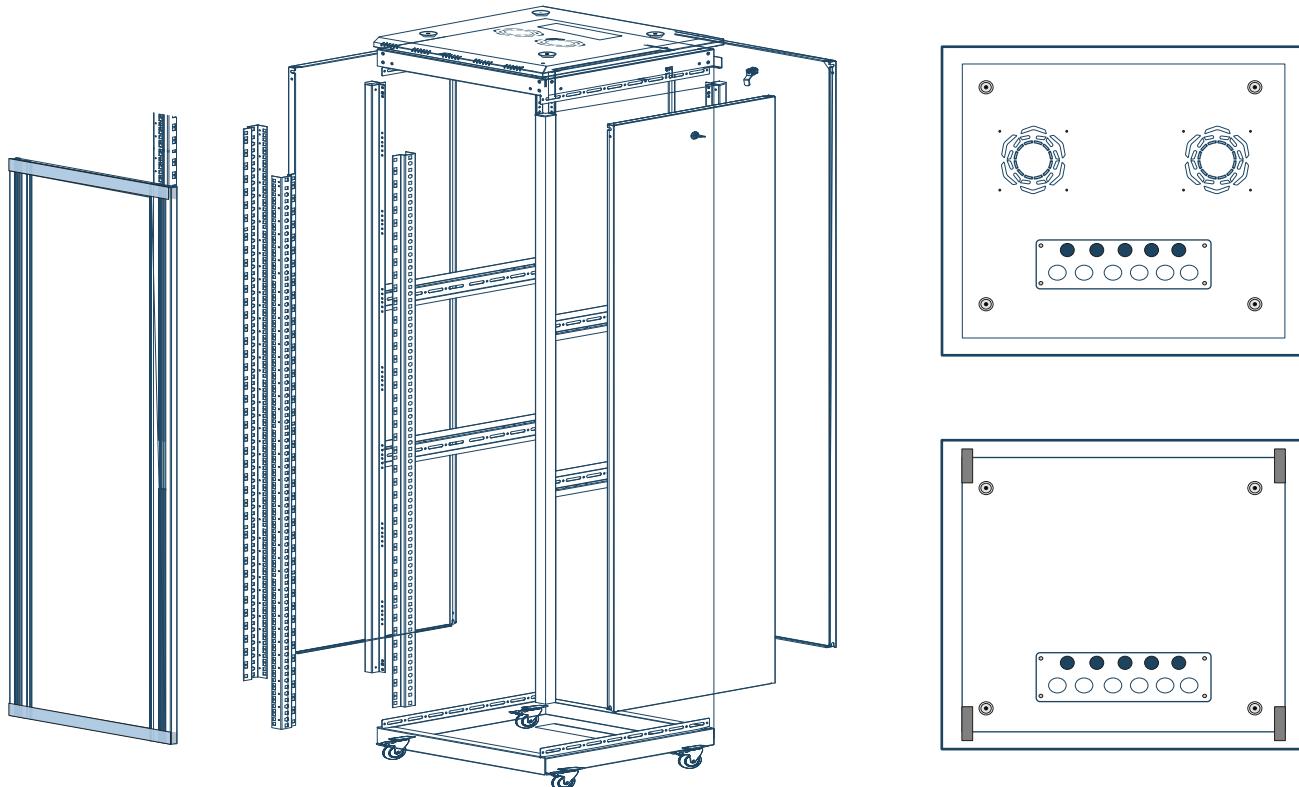
Page-6

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## Equipment Rack

**19" Width 600 mm x Depth 600 mm RACK**

### Construction & Exploded View



Product Number***	Product Description	Size WxDxH mm	h Size in U	Width Overall mm	Width Rail to Rail	Depth Overall mm	**Depth Cont. Rail to Rail mm	QTY IN PACKAGE
AGNI EQIP-12UR	12U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x720	12U	600	19"	600	390	1
AGNI EQIP-16UR	16U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x898	16U	600	19"	600	390	1
AGNI EQIP-18UR	18U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1076	18U	600	19"	600	390	1
AGNI EQIP-20UR	20U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1164	20U	600	19"	600	390	1
AGNI EQIP-24UR	24U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1256	24U	600	19"	600	390	1
AGNI EQIP-26UR	26U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1346	26U	600	19"	600	390	1
AGNI EQIP-28UR	28U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1435	28U	600	19"	600	390	1
AGNI EQIP-30UR	30U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1525	30U	600	19"	600	390	1
AGNI EQIP-32UR	32U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1612	32U	600	19"	600	390	1
AGNI EQIP-36UR	36U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1781	36U	600	19"	600	390	1
AGNI EQIP-40UR	40U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x1968	40U	600	19"	600	390	1
AGNI EQIP-42UR	42U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x2058	42U	600	19"	600	390	1
AGNI EQIP-46UR	46U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x2236	46U	600	19"	600	390	1
AGNI EQIP-48UR	48U 19" Free Standing Cabinet W=600 mm D=600 mm	600x600x2326	48U	600	19"	600	390	1


**Environment Friendly**

ISO 14001 Environmental

Management System

RoHS compliancy

100 % Recyclable


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Page-7



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## Ingress Protection Equipment Rack



### 19" IP65 Outdoor Cabinet



### IP65 Rated 19" 20U Outdoor Equipment Rack

The IP65-rated 19-inch, 20U outdoor equipment rack is engineered for reliable performance in demanding outdoor environments. The enclosure is manufactured from heavy-duty 16/14 SWG CRCA sheet steel and finished with a high-quality powder coating in an approved colour, providing dual IP protection along with enhanced corrosion resistance and long-term durability.

The rack is anti-vandalism tested and equipped with robust lockable handles on both the front and rear doors ensuring secure access control. Vertical mounting rails are provided to support standard 19-inch equipment, including power amplifiers and other rack-mounted devices.

Power distribution is managed through an integrated AC power distribution module, offering five output sockets for convenient and organized equipment power connectivity.

To maintain IP65 integrity, the enclosure incorporates a silicone sealant compound gasketing system, ensuring effective sealing at all edges and gaps to prevent dust and water ingress. The rack features a top open/close canopy with a height of 90 mm, designed to conceal and protect the ventilation system.

Thermal management is handled through four integrated fan modules, strategically positioned under the top canopy to assist in maintaining IP protection while allowing efficient heat dissipation. Exhausted hot air is managed via an integrated fan heat exchanger unit, ensuring consistent internal temperature control.

At the base, the rack includes a 200 mm high plinth, providing elevation to protect against flooding or splashing water. A bottom cable manager with sufficient knockout entries supports secure cable routing during concrete foundation installation. Additional front-section screwed cable openings are provided for flexible and organized cable management.

The enclosure features a monoblock welded body construction, delivering superior mechanical strength, structural stability, and resistance to environmental stress. Special side flange mounting provisions further enhance protection against water and dust ingress. The rack is designed to be installed at different height elevations, offering additional safety in flood-prone or outdoor installations.

#### Dimensions

Width: 890 mm

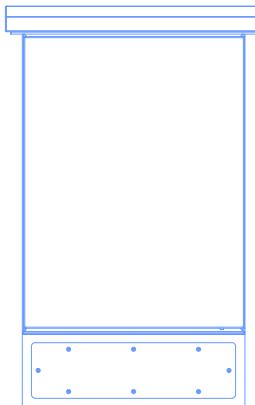
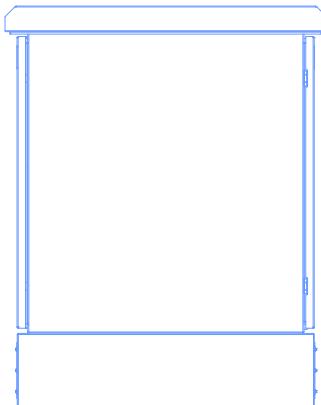
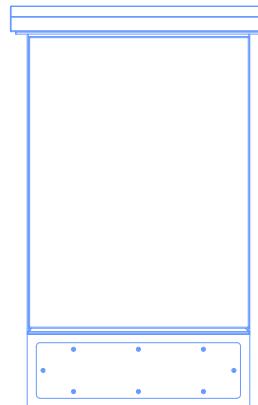
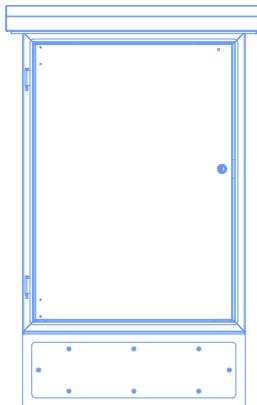
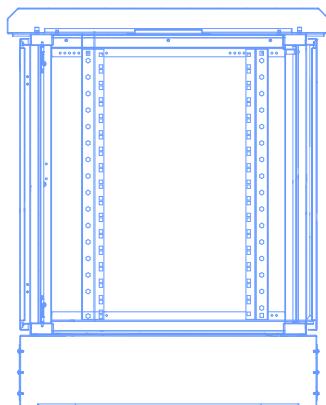
Depth: 850 mm

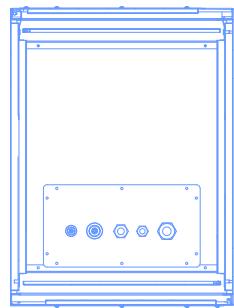
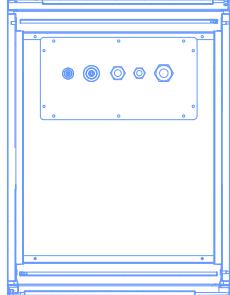
Page-8



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## Equipment Rack

**19" Width 890 mm x Depth 850 mm RACK**
**Construction & Exploded View**

**Front view**

**Side view**

**Rear view**

**Front inside view**

**Side inside view**

**Top view**

**Bottom view**

**Top inside view**

**Environment Friendly**

ISO 14001 Environmental  
Management System  
RoHS compliancy  
100 % Recyclable

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Page-9



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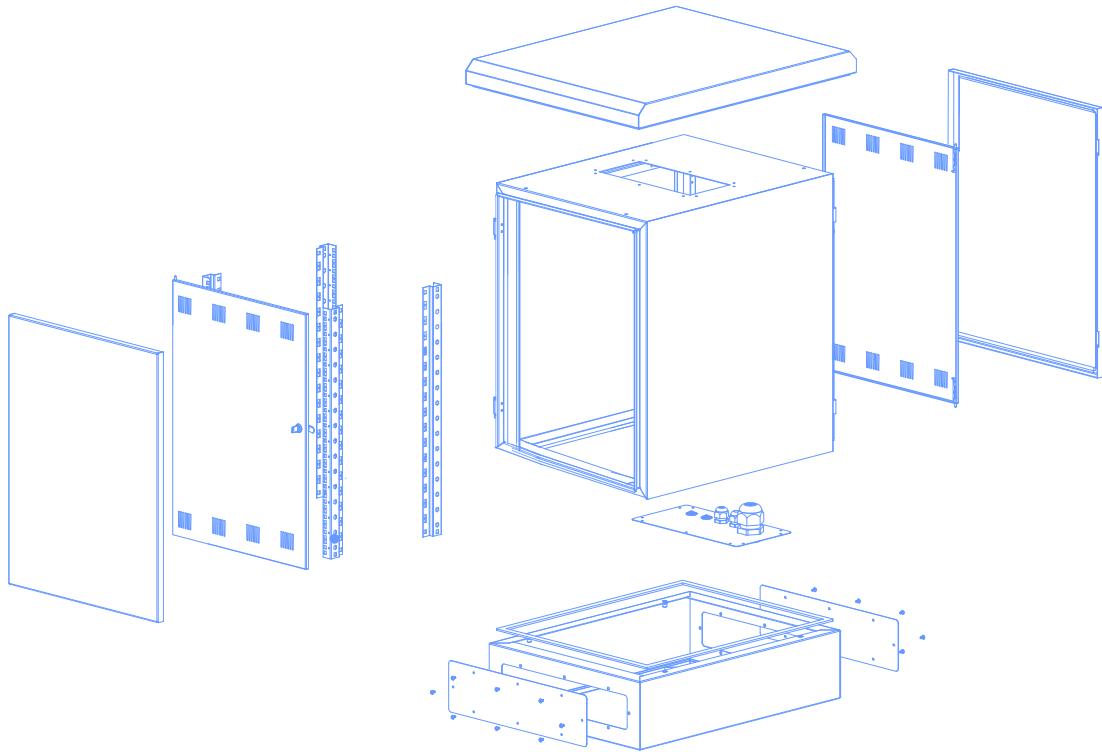
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## Equipment Rack

**19" Width 890 mm x Depth 850 mm RACK**
**Construction & Exploded View**


1	Polyurethane infused sealing/gasketing system provides EN 60529 IP65 protection covers
2	Three point locking system rods supporting IP protection class Anti-vandalism tested according to DIN V ENV 1630. WK2 Anti-vandalism tested lock handle DIN V ENV 1630 burglar resistance. Test methods for the determination of resistance to manual burglary attempts on both front and rear door. *** 9U height has single point lock
3	Internal layer t:1.6 mm thickness and inner cover/door t:1.4mm thickness, material varies as per your MTRL selection, inner cover/door protects the enclosure from wind effects and prevents dust and provides additional protection if the main door is not locked. It has "O" type barrel locking.
5	Open/close function canopy H 70 TO 80 mm, hiding and securing fan module, helping EN 60529 IP protection, allowing heat dissipation from exhausted hot air through fan kit, hinged, site implementation friendly. This housing may be closed with dummy plate if an air conditioner or heat exchanger unit is integrated on front door. It has inclined hidden 4 screws accessible from inside of cabinet the roof canopy can be fully removed for maintenance and service.
6	Air intake kit, filtered, filter replacement possible with wing nuts toolless operation. Once an air conditioner or heat exchanger is integrated these fresh air inlet panels can be closed with metallic dummy panels.
7	Clear U marked, 19" vertical mounting rails, 4 pcs, DC01, 6112, electro galvanize coating.
8	Monoblock welded body for stability and mechanical resistance and special flange system for water and dust ingress, designed to form together with polyurethane gasketing system allows EN 60529 IP65 protection.


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Page-10



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