



PRODUCTS & TECHNICAL SPECIFICATIONS CATALOG

# Telecom Enclosures & Cabinets Catalog

## كتالوج كبائن وهياكل الاتصالات

Complete mechanical and electrical engineering specifications for battery cabinets and outdoor site enclosures

## Enclosure Engineering Solution Overview

We supply and fabricate a comprehensive range of thermally insulated telecom enclosures to safeguard active electronics:

### **Thermally Insulated Battery Enclosures**

Integrated cabinets engineered to house active lithium-ion and lead-acid battery strings in outdoor locations. They feature multi-layered high-density PU insulation and DC-powered active air conditioning to prevent thermal degradation in desert climates.

### **Base Station & Towers Shelters**

Heavy-duty galvanized steel or aluminum enclosures with high dust/water ingress protection (up to IP55). Crafted to protect baseband units (BBUs), active radios, DC power routers, and telemetry nodes on 5G network sites.

### **Technical Conformity:**

All items listed in this catalog strictly comply with Saudi regional tower operator specifications (e.g. TAWAL Electromechanical Specs), backed by exhaustive factory inspections and drawings documentation.

## 2000W Power 42RU Outdoor Battery Enclosure (TAWAL Compliant)

**The industry-standard certified cabinet for housing telecom battery backup systems matching engineering drawings.**

The 42RU double-walled active cooling battery cabinet represents state-of-the-art engineering in physical battery protection in extreme environmental settings.

Its structural design, electrical load handling, and cooling subsystems have been engineered to match \*\*TAWAL GSM Sites Technical Specifications (V1.23)\*\*, utilizing a smart DC air conditioner to maximize energy efficiency.

**Dimensions: Height 2250 mm x Width 860 mm x Depth 860 mm (includes 150 mm plinth).**



## Detailed Technical Specifications - 42RU Enclosure

| Technical Item          | Detailed Engineering Value / Specification                                          |
|-------------------------|-------------------------------------------------------------------------------------|
| Model & Size            | H2250 x W860 x D860 mm (includes 150 mm plinth base for outdoor site placement)     |
| Enclosure Materials     | Hot-dip galvanized steel (Outer layer 2.0 mm, Inner layer 0.8 mm thickness)         |
| Thermal Insulation      | 30 mm PU foam sandwich layer (density 45 kg/m <sup>3</sup> , flame retardant)       |
| Internal Capacity       | 43RU rack space fully equipped with standard 19-inch mounting rails                 |
| Cooling Subsystem       | 2000W DC Air Conditioner (-48VDC) + built-in emergency fan assembly                 |
| Ingress Protection (IP) | IP55 protection rating (complete protection against sand/dust and water jets)       |
| Power Distribution      | Integrated DC PDU, AC PDU, UK type 220V power outlet, and copper grounding bar      |
| Sensors & Telemetry     | DC 48V Temperature/humidity sensor, smoke sensor, 2 door limit switches             |
| Finish / Painting       | Outdoor anti-corrosive UV-resistant polyester powder coating RAL7035 / Pantone 482C |

## Factory Testing & Quality Assurance Documentation



### Factory Acceptance Testing (FAT)

All Gwing enclosures undergo comprehensive factory acceptance testing. Our quality assurance records include IP testing parameters, electrical load testing, and active cooling system efficiency analysis.

- **Detailed Mechanical Drawings (PDF):** We provide certified 2D and 3D drawings covering base anchors and cable glands.

To request official engineering drawings or factory test logs, contact our sales and inquiry team at: [sales@9owing.com](mailto:sales@9owing.com)