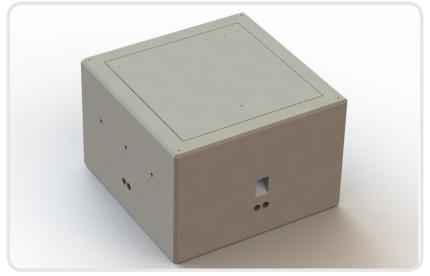


# Concrete Battery Enclosure | CBE-0001

# MAGICUBE

# CONCRETE BATTERY ENCLOSURE



- Highly secure vandal resistant
- Rapid deployment
- Low cost Higher ROI
- Reduced overall site CAPEX / OPEX
- Passive temperature management

#### **Product Overview**

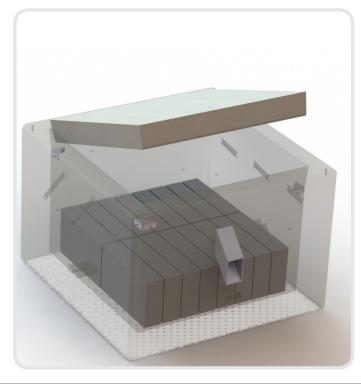
The low cost Poynting Magicube protects high risk critical infra-structure against theft and damage in remote, exposed and vulnerable locations. Features highly robust reinforced pre-cast concrete, quick and easy deployment, innovative patented access and access control system (sold separately) and a well-managed passive temperature control methodology. Ideal for infrastructure providers such as mobile operators, fibre and electricity providers who need to protect batteries, electrical sub-assemblies and IT equipment. The Magicube has been successfully deployed in the harsh extremes of sub-Saharan Africa. Protecting base station sites for mobile operators, the cube removes the need for expensive battery cooling (CAPEX) thereby reducing power consumption (OPEX). The current cost of repair, replacement and restoration of critically damaged infrastructure together with loss of associated revenue generating services justifies the highest Return On Investment (ROI) for the Magicube.

### **Features**

- Patented interlocking system
- Portable opening kit for ease of maintenance and added level of security
- Vandal resistant 150mm reinforced precast concrete
- Passive temperature control methodology for optimal battery life
- Removable access and opening mechanism

#### **Application**

- Battery enclosures for mobile operators
- Equipment enclosures for service providers
- IT infrastructure providers
- Electrical sub-assemblies for utility providers
- Secure installations



#### **Battery Cube Capacity**

Secure enclosure for 24 x 2V cells connected in series to form a 48V bank, or 28 x 12V cells with a bottom layer of 16 and top layer of 12 batteries.

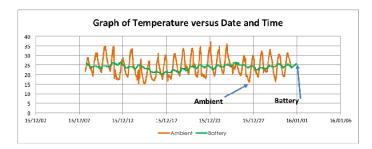
#### **Environmental Specifications**

Environmental Conditions: Outdoor any climatic conditions Rain(drainholes and seals): Any equipment stored on shelving with 50mm height will remain dry under heavy (IP 25) rain conditions.

#### **Ordering Information**

Commercial name: MagiCube Order Product Code: A-CBE-0001 EAN number: N/A

# Battery Temperature in Hot Johannesburg Summer Month



Month Summary Max Ambient 37.5°C Ambient Avg 23.9°C Battery Avg 24.0°C

#### Explanation:

Battery average temperature will be equal to AVERAGE Ambient temperature of the site. Average temperature for any location should take into account an annual cycle (winter and summer) and both day and night temperatures.

#### **Mechanical Specifications**

Product Dimensions ( $L \times W \times D$ ): 1500mm x 1500mm x 1000mm Product Dimensions (inside 1200mm x 1200mm x 750mm

cube):

Weight: 2.9 Ton(Without batteries)

Lid Weight: 750 kg

Opening:

Externally no apparent opening mechanism. Opening possible with HSO approved service kit

Wall Thickness: 100mm (base) -150mm (side

Walls and lid: 75x 75 Y 16 rebar mesh with

additional perforated plates at critical locations

Cube Base: 517 Y6 rebar mesh

Materials: 40-50MPa precast concrete

Double 100 x 100 x 6mm Mesh reinforcing

HVAC: Standard with Free flow ambient

air cooling.

Exterior: Coated with heat resistant white

paint.

Locking options: Optional access hole cover with

actuator locking mechanism (actuator control device not

provided)

Alarm Option:

Access, battery temperature, bus voltage,battery bank midpoint voltage montoring

Meets stringent health and safety requirements with Specification:

certification

Cable interface (Hole 2 x 50mm diameter ducts

Venting:

dimensions): provided.

6 x 12mm top mounted vents slanting outwards at 45 degrees

Ground preparation: Compacted ground, slab or firm

pebble surface.

Site installation: Pure drop down of cube. On site

provision of ducting/cabling and

installation of batteries.

## **Contact Poynting**

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