



TYPE 1 - 1.6M

SINGLE BAY

LITHIUM OUTDOOR ENCLOSURE

DATA SHEET



“Join the green revolution and harness the unlimited power of the sun with solar energy solutions from eTUIT”.

OUTDOOR ENCLOSURES FOR TELECOM EQUIPMENT

The combination of Innovation and customized design, efficiency and reliability make the eTUIT Outdoor Enclosure stand out. By limiting the losses in the form of heat dissipation and necessary cooling requirements, the losses have been reduced by 50% compared to the current industry standard. From a global perspective, considering the high energy consumption in the telecom industry, these enclosure breakthroughs are not only reducing operational costs for the operators, but they can also have a significant environmental impact.

The most efficient Outdoor Solution for Telcom industry!



FOREWORD

SCOPE

Wireless, fibre and long-haul communication

Today's communications demand state-of-the-art, cost-effective and compact Outdoor systems with diversified cooling options. eTUIT Outdoor Enclosures delivers an industry-leading solution with superb reliability at the lowest lifetime cost.

The eTUIT Enclosures also have a variety of Cooling Mechanism such as AC/DC Air - conditioners, Thermal Electric Coolers, Passive Heat Exchangers and Fan/Filter solutions with low power consumption, which historically has been a drawback with most traditional technologies.

Broadband and network access

Increasing network demands the storage of Communication and Power cabinets with compact and less energy consumption solutions with flexibility and expandability. eTUIT enclosures can cascade as demand grows. eTUIT delivers key building modules for future needs.

Small and large

Due to the flexibility and Customization in eTUIT design, eTUIT Solution has a cost-competitive design and a highly flexible system for the communication interface.

MECHANICAL DESIGN

- SINGLE BAY FOR LITHIUM BATTERY STORAGE
- POWER SYSTEM AND CUSTOMER EQUIPMENT
- UP TO 6 MODULES OF 150Ah 48V LITHIUM
- UP TO 30U RACK SPACE FOR EQUIPMENT
- THERMAL INSULATION
- DC AIRCON + FAN/FILTER COOLING
- THERMAL MANAGEMENT
- IP55, NEMA 3R
- EASY INSTALLATION
- EASY FILTER CHANGE
- EASY MAINTENANCE

SPECIFICATION

Model	Dual Bay
PHYSICAL SPECIFICATIONS	
External Height x Width x Depth (mm)*	1600x 800 x 700 mm
Battery Shelves	6 x 150Ah LITHIUM MODULE
Weight	115KG approx.
Rack space	UP TO 30U Equipment Space (19")
<i>*Info does not contain cooling options</i>	
CONSTRUCTION SPECIFICATIONS	
Skin Material (Outer Skin)	Insulated panels 45mm with 304 Stainless steel base, bearing part SGCC/ t=2.0mm (C5I Environment)
Frame Formation	Single body
Powder-Coat Paint	Outdoor Powder Light grey RAL 7035 coating
Insulation	PEF thermal insulation foam 20mm thick
DOOR SPECIFICATIONS	
Doors	
Latches	Four Point
Gasket	Gasket UL-rated for outdoor use
Doorstop / Door Stay	Doorstop / Door Stay Wind latch to hold door during maintenance (120°)
Cooling Unit	Optional 500W - 5000W AC or DC Air Conditioning
CABLE GLANDS AND ENTRY	
Left Hand Side Bottom Entry (PG Glands)	4 x PG36 2 x PG29
Right Hand Side Bottom Entry (PG Glands)	N/A
OTHERS	
1x Door Alarm Switch (Magnetic Type)	1 x Smoke detector
1 x Filter	1 x AC-DB Box (with Changeover switch) DBEX5563
1 x DC Fans for airflow	Standard handles or ASSA Abloy option
1 x DC Service light	Provisional side entry
Electrical	IEC 60950, UL 60950*, CAN CSA-C22.2 No 60950-1-03
EMC	ETSI EN 300 386 V.1.3.1, EN 61000-6-3, EN 61000-6-2
Environment	YD T1537-2006, GB 4208-2008 IP55
OTHER SPECIFICATIONS	
Part Number	Description
MCS Group_ eTUIT Lithium Type 1- 1.6m	

THE ENVIRONMENTAL LABEL



This mark indicates that the product described in this manual does not contain toxic and hazardous substances or elements. It is a green product, and can be recycled after being discarded, and should not be discarded incorrectly.

RECYCLE



This mark indicates that the product cannot be disposed of with other waste.

After the battery life is terminated, the battery can continue to be used after it is recycled by a professional recycling organization. Do not discard incorrectly.



Recycling must be performed according to national and local regulations for end-of-life treatment of Electrical and Electronic equipment. Printed circuit board assemblies (PCBA) must be handled separately from other waste and kept away from open fire. All work must be done according to good operating practices and strict safety standards, following all relevant health and safety aspects.

ABBREVIATIONS

H Height

BMS Battery Management System

RS232 Recommended Standard 232

LCD Liquid Crystal Display

DOD Depth of Discharge

EOD end of discharge

USB Universal Serial Bus

RS485 Recommended Standard 485

MOSFET Metal-Oxide-Semiconductor Field-Effect Transistor

SOC State of Charge

PCB Printed Circuit Board

D Depth

LFP LiFePO₄

OCV Open Circuit Voltage

ESM energy storage module

EPO Emergency Power Off

W Width

RTU Remote Terminal Unit

NTC Negative Temperature Coefficient

PC Personal Computer

PCS Power Conversion System

BMS Battery Management System

ESN equipment serial number

UPS uninterruptible power system

CAN control area network.

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