

# **Outdoor power cabinet**

The Type 3 cabinet platform is designed for a variety of applications and can be tailored to fit your specific needs. The cabinet is well suited for power, batteries and telecom/industrial equipment, all integrated into a robust package. This solution has a unique cube design that give flexibility to easily have various heights of cabinets.



# TYPE 3

## **OUTDOOR CABINET**

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#### **RELIABILITY**

Reliability within the outdoor plant depends upon a cool, dry and secure environment for the electronics such as the DC power, Telecom and Industrial equipment. The Type 3 Outdoor Power Cabinet more than accomplishes this with a variety of Thermal Management solutions that will keep sensitive electronics functioning in the most extreme environments.



#### **APPLICATIONS**

The Type 3 cabinet is well suited for a wide range of Telecom and Industrial applications such as:

- Radio Access Networks (2G, 3G, 4G / LTE / WiMax)
- Optical Networks
- Cable TV
- DSL
- SCADA
- Rail and Metro
- Power distribution

The cabinet works very well as a standalone power / battery backup solution and provides additional space for telecom / Industrial equipment. In addition the outdoor enclosure is suited for Industrial environments.

## **KEY FEATURES**

- 19" EQUIPMENT SPACE
- OPTIONAL THERMAL INSULATION
- DC POWER, TELECOM/INDUSTRIAL EQUIPMENT AND BATTERY BACKUP
- GALVANIZED STEEL CONSTRUCTION (ALUMINUM UPON REQUEST)
- DOOR MOUNTED THERMAL MANAGEMENT OPTIONS:
  - FAN AND FILTER
  - AIR CONDITIONER
  - HEAT EXCHANGER
  - o HYBRID
  - HEATERS
- CABINET VARIANTS:
  - SINGLE BAY
  - O DUAL BAY
  - DUAL CHAMBER
- CLOGGED FILTER DETECTION
- ANTI VANDAL KIT
- UL 50
- IP55, NEMA 3R
- EASY INSTALLATION
- EASY FILTER CHANGE

# TYPE 3

# **CABINET VARIANTS**



#### SINGLE BAY CABINET

Eltek's Single bay cabinet works very well as s stand-alone power / battery backup solution. Can be as well used as expansion cabinet for telecom / industrial equipment or battery backup expansion cabinet.

Single bay cabinet is economical solution in applications where single climate zone in cabinet is required.

#### THERMAL MANAGEMENT SPECIFICATION

Various options - Fan and filter

Air-conditionerHeat exchanger

- Hybrid

Heater(s) Depend on selected thermal

management

Cooling capacity Depend on selected thermal

management

#### CONSTRUCTION

Rack space From 21U to 44U

(depend on selected model)

Insulation Optional

Specifications are subject to change without notice



## DUAL CHAMBER CABINET

Eltek's Dual Chamber Cabinet splits the cabinet into to two climate zones. Top zone cools the electrical equipment with a fan and filter, while the bottom zone cools the batteries with a small air-conditioner.

With its unique feature of cooling the batteries only with an air-conditioner, you will save capital cost as well as operating cost

#### **TOP CHAMBER SPECIFICATION**

Thermal management Fan and filter Fan voltage 48Vdc

Fan speed control Temp. regulated

Cooling capacity 700W 19" space 10U

#### **BOTTOM CHAMBER SPECIFICATIONS**

Thermal management Air-conditioner Insulation Dual layer

Specifications are subject to change without notice





# **CABINET VARIANTS**



## DUAL BAY CABINET

With a dual bay cabinet you are able to combine power, batteries, telecom equipment and even an Indoor BTS in one cabinet stand. This unique solution gives you the best flexibility and provides easy use of indoor BTS's used in an Outdoor Cabinet.

The right bay can also be equipped with high capacity batteries for hybrid sites for cyclic gen sets or solar/wind powered sites.

#### THERMAL MANAGEMENT SPECIFICATIONS

Thermal management Fan and filter Fan Voltage 48Vdc

Fan speed control Temp. regulated

Heater Optional Thermally separated left and right bay

#### **OPTIONS**

Anti-vandal security feature Top cable entry for RF cables

Battery shelf space in Right Bay: 700mm x 516mm x 180mm

 $(W \times D \times H)$   $(27,5" \times 20,3" \times 7")$ 

#### **DIMENSIONAL SPECIFICATIONS**

Cabinet height2200mm (86,6")Cabinet depth901mm (35,5")Cabinet width1462mm (57,6")

Specifications are subject to change without notice



# THERMAL MANAGEMENT OPTIONS





## HEAT EXCHANGER

Eltek's Heat Exchanger provides a closed loop heat management system that protects the equipment from corrosive and highly polluted environments and has a low operating cost. Site maintenance is brought to a minimum level as filter change is not required.

#### **TECHNICAL SPECIFICATIONS**

Cooling capacity	100W/k
Heat Exchanger core	Epoxy coated aluminum
Fans specification	48Vdc / 100W / IP44
Fan speed control	Temp. regulated

#### **PHYSICAL SPECIFICATIONS**

Dimensions (H x D x W)	1092mm x 201,5mm x 401,5mm (43,0" x 7,9" x 15,8")
Weight	34,3kg (76,18 lbs)
Adds 202mm (7,95") to dept	h of the cabinet

Adds  $56.7 \sim 70.1 \text{kg}$  (125 $\sim 154 \text{lbs}$ ) to weight of cabinet depends on model selected

#### **CONSTRUCTION SPECIFICATIONS**

Galvanized steel (non-corrosive) skin material

UL rated gasket for outdoor use

Outdoor Polyester powder coating Light grey RAL 7035

Mesh screens out unwanted objects such as bugs and leaves.

Specifications are subject to change without notice

## FAN AND FILTER

Eltek's free cooling cabinets have the advantage that a large amount of air can be exchanged, giving very high cooling performance with low power consumption. The cabinets are designed with overpressure which provides higher sealing performance.

## **TECHNICAL SPECIFICATIONS**

Cooling capacity	2000W
Fan(s)	Single or dual fans (optional)
Fans specification	48Vdc / 100W / IP44
Fan speed control	Temp. regulated
Easy change Inlet filter	Optional M5 (EN 779) filters: - Progressive dump filter, 0,35m <sup>2</sup> - Pleated filter, 4,2 m <sup>2</sup> – 5,8 m <sup>2</sup> - Gore pleated filter, 4,2 m2
Easy change Outlet filter	M5 (EN 779) filter: Progressive dump filter, 0,22 m²

#### **PHYSICAL SPECIFICATIONS**

Integrated in the door and adds 53mm (2") to depth of the cabinet

## **CONSTRUCTION SPECIFICATIONS**

Material	Galvanized steel
Splash guard	Aluminium made with large openings to ensure low speed airflow
Heater(s)	Optional one or two heaters
Filter detection	Optional: sends an alarm when filter gets clogged or if filter is removed

Specifications are subject to change without notice

#### **FAN AND FILTER**









Model	1,2m	1,5m	1,8m		2,0m		2,2m	
PHYSICAL SPECIFICATIONS	<u>'</u>							
Exterior Width (mm)	700 (27,5")	700 (27,5")	700 (27,5")		700 (27,5")		700 (27,5")	
Exterior Depth (mm)*	770 (30,3")	770 (30,3")	770 (30	0,3")	770 (30,3")		770 (30,3")	
Weight*	68,6Kg (151 lbs)	94kg (207 lbs)	100kg	(220 lbs)	102,5kg (226	6 lbs)	105Kg (231 lbs)	
Rack space	21U	28U	34U		39U		44U	
*Info does not contain cooling	•							
THERMAL MANAGEMENT OP								
Fan and Filter	See page 4 for details							
Heat Exchanger	See page 4 for details							
Air Conditioning unit	AC-ACU, 0.57kW	AC-ACU, 2kW		DC-ACU, 0.			C, 2kW	
- Power input - Cooling capacity (at 35C/35C)	230V <sub>AC</sub> ±10%, 50/60H 570W at 50Hz	$\frac{12}{2000W}$		48V <sub>DC</sub> nom 520W	ominat 48√ <sub>D</sub> 2000		c nominal	
- Heating capacity (built-in)	500W	1000W		500W	600V			
- Adds to cabinet depth	253mm (10")	163mm (6.4")		223mm (8.	.8") 213n		nm (8.4")	
- Adds to cabinet weight	34.1kg (75lbs)	57.1kg (126lbs)		40.1kg (88	88lbs) 60.1kg (132lb)		kg (132lb)	
Llybrid Cooling Unit	All units are IP55 rated		F0)					
Hybrid Cooling Unit (see contact for more information)	Active cooling/Free cooling solution (AC/FC) information) Active cooling/Heat Exchanger (AC/HEX)							
Dual chamber solution	See page 2 for details							
CONSTRUCTION SPECIFICATIONS								
Skin Material	1.5mm (0.06") thick electro-galvanized steel (corrosion-resistant)							
Frame Material	Galvanized Steel							
Powder-Coat Paint	Outdoor Polyester Ligi	nt gray RAL 7035 co	oating					
Insulation	Closed Cell Insulation							
DOOR SPECIFICATIONS								
Latches	Four-point latched, available with an optional lock							
Gasket	UL rated for outdoor use							
Door Stop / Door Stay	Wind latch to hold doo	r during maintenan	ce (120°	")				
RAIL SPECIFICATIONS								
Construction	Galvanized Steel							
Mounting Pattern	EIA Standard with hole	es for cage nuts		Ор	Optional M5 or M6 kits available			
Mounting	19" mount - Available	19" mount - Available kits from 5U			23" versions available upon request			
MISCELLANEOUS SPECIFICA	TIONS AND OPTIC	NS						
Cable Entry	Bottom Cable Access through a 2x FL21 cut outs  Various glands available upon				ole upon request			
Battery trays	Optional 23" tray(s) ca batteries up to 260	pable of holding a s kg (572 lbs)	string of	Ea	Each tray weighs 5.6kg (12.3lbs)			
Ground Bar	11 position M6 pressn	ut						
Heater	Optional 500W, can ins	stall up to 2 heater	5	Ea	ch kit weighs	1.3Kg	g (2.86lbs)	
Plinth	Foot Print (W x D) 698	mm x 743mm (27,5	" x 29")					
Lifting Ears	4 lifting ears located u	ınder top cover						
Zone 4 (see contact for more information)	Special Cabinets availa	able to handle Zone	4 Seisn	nic				
Shipping Pallet	Shipments made in an	upright position or	a wood	pallet We	eight of packir	ng 14	kg (30lbs)	
DESIGN STANDARDS								
Electrical	IEC 60950, UL 60950*, (Depending on Equipm		. 60950	)-1-03				
EMC	ETSI EN 300 386 V.1.3.1, EN 61000-6-3, EN 61000-6-2							
Environment	ETS 300 019, Ingress F							
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