

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

Doc 234748.DS3 – rev14

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 stand-alone 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
 - HYBRID
 - HEATERS
- CABINET VARIANTS:
 - SINGLE BAY
 - 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 a 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-conditioner - Heat 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

SINGLE BAY CABINET



DUAL CHAMBER CABINET

Eltek's Dual Chamber Cabinet splits the cabinet into 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

DUAL CHAMBER CABINET



TYPE 3

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 x D x H)	(27,5" x 20,3" x 7")

DIMENSIONAL SPECIFICATIONS

Cabinet height	2200mm (86,6")
Cabinet depth	901mm (35,5")
Cabinet width	1462mm (57,6")

Specifications are subject to change without notice

DUAL BAY CABINET



TYPE 3

THERMAL MANAGEMENT OPTIONS

HEAT EXCHANGER



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 depth of the cabinet	
Adds 56.7~70.1kg (125~154lbs) 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 F5 (EN 779) filters: - Progressive dump filter, 0,35m ² - Pleated filter, 4,2 m ² – 5,8 m ² - Gore pleated filter, 4,2 m ²
Easy change Outlet filter	F5 (EN 779) filter: Progressive dump filter, 0,22 m ²

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



TYPE 3

OUTDOOR CABINET

Model	1,2m	1,5m	1,8m	2,0m	2,2m
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PHYSICAL SPECIFICATIONS

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 (30,3")	770 (30,3")	770 (30,3")
Weight*	68,6Kg (151 lbs)	94kg (207 lbs)	100kg (220 lbs)	102,5kg (226 lbs)	105Kg (231 lbs)
Rack space	21U	28U	34U	39U	44U

*Info does not contain cooling options

THERMAL MANAGEMENT OPTIONS

Fan and Filter	See page 4 for details				
Heat Exchanger	-	See page 4 for details		-	See page 4 for details
Air conditioning Unit - Cooling capacity at 50Hz & 35C/35C	0.57kW	1kW, 1.7kW		1.7kW	1kW, 1.7kW
All units are IP55 rated, Adds 250mm (9.8") to cabinet depth, Weight range from 69.8kg (152lbs) to 79.1kg (174lbs)					
Hybrid Cooling Unit (see contact for more information)	-	Active cooling/Free cooling solution		-	Active cooling/Free cooling solution
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 Light gray RAL 7035 coating
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 door during maintenance (120°)

RAIL SPECIFICATIONS

Construction	Galvanized Steel	
Mounting Pattern	EIA Standard with holes for cage nuts	Optional M5 or M6 kits available
Mounting	19" mount - Available kits from 5U	23" versions available up on request

MISCELLANEOUS SPECIFICATIONS AND OPTIONS

Cable Entry	Bottom Cable Access through a 2x FL21 cut outs	Various glands available upon request
Battery trays	Optional 23" tray(s) capable of holding a string of batteries up to 260kg (572 lbs)	Each tray weighs 5.6kg (12.3lbs)
Ground Bar	11 position M6 pressnut	
Heater	Optional 400W, can install up to 2 heaters	Each kit weighs 1.3Kg (2.86lbs)
Plinth	Foot Print (W x D) 698mm x 743mm (27,5" x 29")	
Lifting Ears	4 lifting ears located under top cover	
Zone 4 (see contact for more information)	Special Cabinets available to handle Zone 4 Seismic activity	
Shipping Pallet	Shipments made in an upright position on a wood pallet	Weight of packing 14kg (30lbs)

DESIGN STANDARDS

Electrical	IEC 60950, UL 60950*, CAN CSA-C22.2 No. 60950-1-03 (Depending on Equipment Installed)
EMC	ETSI EN 300 386 V.1.3.1, EN 61000-6-3, EN 61000-6-2
Environment	ETS 300 019, Ingress Protection: EN 60529 IP55

Specifications are subject to change without

Advice Electronics Ltd