

# ORC™ Roadside Telecom Equipment Enclosures



The **Eaton ORC series of outdoor telecommunications cabinets** is a versatile and compact range of solutions for DC power, battery backup and equipment mounting. The **ORC** houses DC power, batteries and equipment. Marine grade aluminium construction and fully sealed technology guarantee a long maintenance-free life for the cabinet and complete protection for equipment inside. There is a wide range of equipment mounting, cooling and battery options. The ORC has mounting space for up to 19U of 19 inch equipment.

The included DC power system provides up to 187A of load current plus battery recharge. Optional battery cabinets provide capacity for up to 600Ah backup.

The cabinets are cooled by a powerful air to air heat exchanger system with the ability to dissipate up to 5kW of heat. This uses temperature-controlled DC fans for lowest energy use and lowest possible noise. An NES-compliant option is available for lowest noise residential applications.

All cabinets are fully monitored with remote communications and control options.

## Features

- Air to air heat-exchangers – giving up to 5kW heat dissipation
- Field upgrade or replacement of heat exchangers
- Variable speed DC fans – lowest noise, highest efficiency, and operation under mains fail
- 19" standard equipment bay mounting.
- Double equipment bays – more room for revenue generating equipment
- Graffiti resistant paint – aids cleaning and against vandal impact
- Three point locks – secure locks to resist tampering
- Marine grade aluminum – ensures long life and corrosion resistance
- Galvanized steel plinth – for secure and simplified installation
- Optional front exhaust plinth to meet New Zealand NES noise requirements
- Optional internal battery compartment for smaller footprint
- Optional integrated battery cabinets for longer back-up time
- High seismic withstand capability – for reliability in adversity



Powering Business Worldwide

# Technical Specifications

## Dimensions (H, W, D)

Rear vented ORC	1300mm, 1200mm, 790mm (excludes plinth)
Front vented ORC	1300mm, 1200mm, 860mm (excludes plinth)
Battery Cabinet	1300mm, 420mm, 790mm (excludes plinth)

## Plinth height

Rear Vented	100mm
Front Vented	300mm

## Equipment bays

Without battery box	2 x 19U, 19", 450mm deep
With battery box	2 x 16U, 19", 450mm deep

## Batteries

Internal	1 string x 100Ahr
External	2 strings x 150Ahr each cabinet 600Ahr total with left and right side cabinets

## Environmental

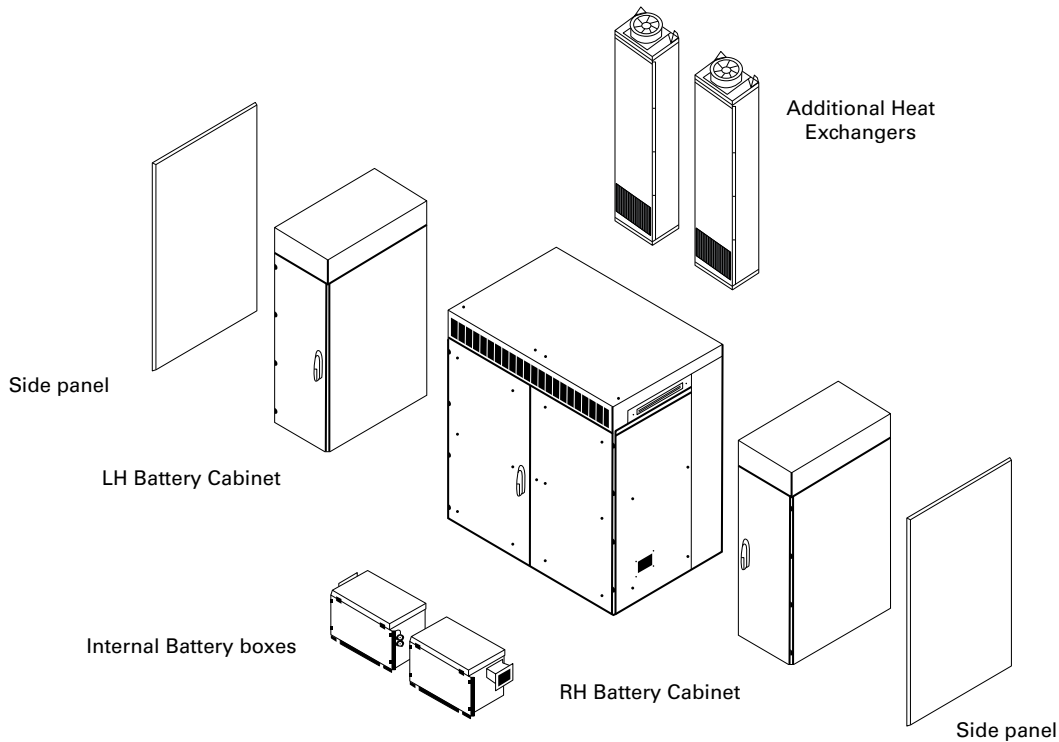
Thermal Performance	2.5kW per 10°C above ambient 5kW per 15°C above ambient
Ambient Temperature	-20°C to +45°C Operating -30°C to 60°C Storage
IP Rating	IP56 (equipment bay)
Seismic Rating	2g in any direction
Wind survival	40m/s (doors open)

## Construction

Cabinet	2.5mm marine grade aluminum, conversion coated
Base	5mm mild steel, hot zinc sprayed
Plinth	3mm mild steel, hot zinc sprayed
Color/Finish	Ghost Grey or Forest Green /Anti-graffiti powder coat

In the interests of continual product improvement all specifications are subject to change without notice.

Email: [dc.info@eaton.com](mailto:dc.info@eaton.com)  
[www.eaton.com/dcpowersolutions](http://www.eaton.com/dcpowersolutions)



**Eaton**  
 EMEA Headquarters  
 Route de la Longeraie 7  
 1110 Morges, Switzerland  
 Eaton.com

© 2021 Eaton  
 All Rights Reserved  
 Publication No. PS154005EN  
 December 2021

Eaton, CellSure, SiteSure, DCTools and PowerManager are trade names, trademarks, and/or service marks of Eaton Corporation or its subsidiaries and affiliates. All other trademarks are property of their respective owners.

Eaton is a registered trademark.  
 All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

