Features

- Quiet operation – to minimise neighbourhood disturbance
- Air to air heat exchanger – to efficiently remove waste heat
- Variable speed DC fans – lowest noise, highest efficiency, and operation under mains fail. Fan fail alarms provided
- Removable fan plates - to simplify service
- 19" standard equipment bay mounting
- Compact footprint – to meet regulatory requirements
- Double skin design, cabinet within a cabinet – to fully protect your electronics. Minimises solar heat gain
- 3 point locks – to resist tampering. Door tamper alarms
- Marine grade aluminium – long life and corrosion resistance
- Galvanised steel plinth – for secure and simplified installation
- Separate MDF chamber – restricts cable contractor access
- Large battery compartment – for long battery reserve times. Separate from main chamber to eliminate battery heating
- Powerware APS power system – highest reliability, efficiency and sophisticated control and monitoring

The N750 outdoor telecommunications cabinet has been designed by Powerware specifically to house high powered equipment such as DSLAM and Access technologies. The special design ensures sensitive telecom equipment is kept within a secure and environmentally controlled atmosphere. An inbuilt 48V power system with back-up batteries keeps the telecommunication and cooling equipment working long after mains (utility) power has ceased. An MDF bay is provided to connect customer and exchange circuits. Made from resilient marine grade aluminium and galvanised steel, the N750 will ensure many years of corrosion resistant service. An air to air heat exchanger with DC powered fans operates under a temperature speed control module to ensure minimum noise and disturbance to nearby residents. The small footprint and low noise makes the N750 ideal for curb side residential use.
## Technical Specification

### Brief Technical Specifications

#### Mechanical
- **Finish & material**: Powder coated 2.5 mm marine grade aluminium on 5mm galvanised steel base
- **Dimensions overall**: 1400(w) x 1515(h) x 500(d) mm
- **Equipment bay**: 1 x 19RU, 19”, 450(w) x 845(h) x 267(d) mm, 71mm in front of rails
  - 1 x 3RU, 19”, 450(w) x 133(h) x 220(d) mm, auxiliary space
  - 2 x 3RU, 19”, (dedicated to DC power system and AC power panel)
- **MDF bay**: Frames for 3 x 45 x 10pr (1350 pairs) R&M IDC blocks (other types on request)
  - 430(w) x 1135(h) x 180(d) mm, total mdf bay
- **Battery bay**: 4 x fixed battery compartments, to suit 8 x 100Ah front access batteries
  - 250(w) x 306(h) x 428(d), total each battery compartment
- **Weight**: 225 kg (without batteries), 521kg (with batteries, 8 x 100Ah)
- **Colour**: Mist green gloss standard (others colours on request)
- **Locking & security**: Each external door, 3 point security locking, keyed alike
- **Cable entry**: 2 x removable panels in base (1 x mdf & fibre 7 holes) (1 x AC & earth 2 holes)

#### Electrical
- **Rectifier voltage / capacity**: 48V (nom), 4500W (3 x 1500W modules)
- **Input voltage**: 240Vac, 50Hz, 1-phase (other voltages / freq on request)
- **Generator AC connection**: 1 x 15A 3 pin (Aus/NZ) captive socket (other types on request)
- **Surge protection**: 1 x 40kA, A-N, A-E, N-E (alarmed module)
- **Earth leakage protection**: 1 x general purpose AC outlet with earth leakage protection
- **AC switching**: Mains (utility) isolator and generator change over switch
- **Lighting**: 1 x handheld (48V) inspection light (door operated)
- **Earthing**: Protective (AC) and service (telecom) earth bars provided

#### DC Power & Control System
- **Equipment sub-rack**: Powerware APS3-002 with LVD, SM40, temperature compensation
- **Load MCB's**: 8 x C60 type MCB's (dedicated - 1 for fans, 1 for utility light)
- **Typical standard alarms**: Doors, fans, rectifiers, DC voltage, mains, surge, over temp, CB trip
- **Battery Capacity**: 8 x Powerware 100Ah 12V SLA batteries, >800W for 12 hours
- **EMC (power system)**: AS3548, CISPR 22 class B

#### Environment
- **Thermal performance**: 50 W/°C (fans full speed), 40 W/°C (fans low speed)
- **Noise level (at rear)**: 56dbA @ 1m (fans full speed), 46dbA @ 1m (fans low speed),
  - 10°C to +50 °C
- **Fan types**: Temperature speed controlled. 2 x 241cfm (int) & 2 x 123cfm (ext)
- **IP ratings**: IP56 (equipment bay), IP54 (mdf and battery bay)

### Product Range and Accessories

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<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>N750 Cabinet</td>
<td>Cabinet Metalwork Only</td>
<td>117060</td>
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<tr>
<td>N750 Cabinet</td>
<td>Electrical &amp; Mechanical Fit-out (excludes rectifier modules &amp; battery)</td>
<td>117075</td>
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<tr>
<td>APR48</td>
<td>Rectifier Module, 48V, 31A, 1500W, 240V 50Hz</td>
<td>116125</td>
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<tr>
<td>APU48 (option)</td>
<td>Rectifier Module, 48V, 15A, 720W, 110/240V 50/60Hz</td>
<td>116126</td>
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<tr>
<td>PWTC12F-100FR</td>
<td>Powerware Sealed Lead Acid Battery, 12V 100Ah</td>
<td>115424</td>
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<tr>
<td>R300044</td>
<td>R&amp;M VS compact disconnect (IDC) module</td>
<td>108962</td>
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<tr>
<td>IEE0504-1-007</td>
<td>N750 Installation &amp; Operation Guide</td>
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