

# Distribution Network Operator (DNO)

For the effective management of incoming power supply for multiple outputs.



# PowerU

by Unipart Rail

A UNIPART RAIL INTELLIGENT ASSET

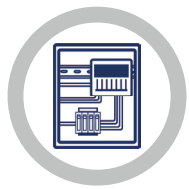
**UNIPART**  
RAIL

# Providing a consistent supply of power to the rail network, through reliable and trusted engineering to ensure trains run to schedule.

With over 2 decades of experience, Samuel James Engineering has been designing, manufacturing and maintaining Distribution Network Operators (DNO's), usually in GRP or steel fabricated cubicles.

A Distribution Network Operator (DNO) is a crucial component of the electricity distribution system. Its primary function is to receive the incoming power supply and distribute it into distinct supplies, enabling the efficient and targeted powering of various specific loads.

These loads can include essential components such as Point Heating Control Cubicles (PHCC), Relay Rooms (RR), Principal Supply Points (PSP), and more.



## Mechanical Build Points:

- Cubicles are made of 2.5mm thick grade 304 Stainless Steel or Glass reinforced plastic (GRP)
- Hinges and handles utilise Oilite bearings (Self lubricating) to ensure frictionless operation and longevity
- Doors can open to 90 & 180 degrees
- Size of Cubicles vary depending on the application and can be custom built to individual specification
- Single or double sided

## Electrical Build Points:

- Highly flexible and can be designed & built for specific applications
- Incoming Supply cable is terminated directly to the main switch
- Busbar system for downstream supply
- 3Ph or 1Ph outgoing fuse switches or MCCBs as required
- Main common earth bar provided with a disconnecting link allowing independent earth resistivity measurements to be taken
- Multifunction energy metres can be installed to monitor power consumption, and data can be sent back to the client for monitoring and data gathering
- LED internal light & switch fitted
- Heater & thermostat fitted to minimise/eliminate condensation set to 5 degrees usually
- 13A 30ma RCD socket can be fitted
- All live terminals are fully shrouded for safety
- IP54 rated
- Can monitor current with CT's and customer can add in monitoring or metering equipment as needed
- ABB Surge protection can be included
- Schneider monitoring for voltage & test points

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