



Overhead Power Distribution (OPD)

Groundbreaking approach to distribute power to the rack

PANDUIT[®]

Overhead Power Distribution (OPD)

Overhead power distribution historically has been inefficient, time consuming, and expensive. Recognizing a need for better options and in keeping with our reputation for innovation and excellent customer service, Panduit is launching its groundbreaking Overhead Power Distribution (OPD) solution..

OPD combines the advantages of existing busway and whip methods while eliminating disadvantages. Safe and efficient, OPD is the best answer available to distribute overhead power. Simply put, OPD is:

Cost Effective:

Lower cost of ownership versus existing solutions

Flexible:

Easy to add segments

Safer:

Finger safe

Safer connection-ground connects before power

Fast to Deploy:

Significant reduction in installation time

Overhead Power Distribution (OPD) Technical Overview

8-Cabinet Solution



Technical Information

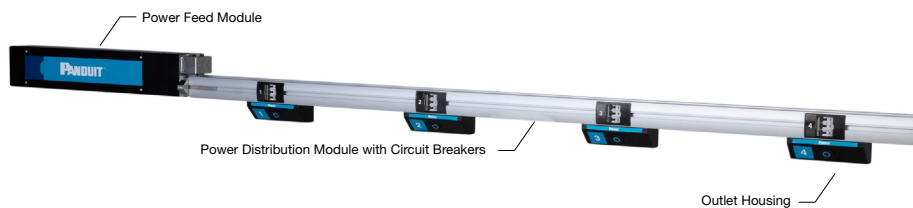
General specifications: Maximum eight cabinets per system. Total amperage is 240A. Power delivered to the rack: three-phase 30A circuits

Cabinet/overhead system compatibility: 600mm cabinet width

System offering:

| Input Voltage | Input Phases | Input Phase Connection | Power per Rack (De-Rated 80%) | Amperage to the Rack | End Feed Input | Rack Receptacle Interface | Regulatory Compliance | Outlet Spacing | Part Number |
|---------------|--------------|------------------------|-------------------------------|----------------------|------------------------|--------------------------------|-----------------------------|----------------|---------------|
| 208V | 3-Phase | 3-Phase Wye | 8.6 kVA | 30A | Compression Connectors | NEMA L21-30 | UL / cUL 857 USA and Canada | 600mm | 208Y3-21LHH2B |
| | | 3-Phase Delta | | | | NEMA L15-30 | | | 208D3-21LHH1B |
| 415V | | 3-Phase Wye | 17.3 kVA | | | IEC 60309 3P+N+E 6h 30A (IP44) | | | |

4-Cabinet Solution



Technical Information

General specifications: Maximum four cabinets per system. Total amperage is 120A. Power delivered to the rack: three-phase 30A circuits

Cabinet/overhead system compatibility: 600mm cabinet width

System offering:

| Input Voltage | Input Phases | Input Phase Connection | Power per Rack (De-Rated 80%) | Amperage to the Rack | End Feed Input | Rack Receptacle Interface | Regulatory Compliance | Outlet Spacing | Part Number |
|---------------|--------------|------------------------|-------------------------------|----------------------|------------------------|--------------------------------|-----------------------------|----------------|---------------|
| 208V | 3-Phase | 3-Phase Wye | 8.6 kVA | 30A | Compression Connectors | NEMA L21-30 | UL / cUL 857 USA and Canada | 600mm | 208Y3-11LHH2B |
| | | 3-Phase Delta | | | | NEMA L15-30 | | | 208D3-11LHH1B |
| 415V | | 3-Phase Wye | 17.3 kVA | | | IEC 60309 3P+N+E 6h 30A (IP44) | | | |

Agency Compliance

Electrical: UL / cUL 857 - Standard for Busway and Associated Fittings

Environmental: RoHS - Directive 2011/65/EU of the European Parliament and of the Council of 8-June-2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)

Overhead Power Distribution (OPD) Module Specifications

Module Information

| | Power Feed Module (All Voltages and Delta or Wye) | Power Extension Module with Circuit Breakers (All Voltages and Delta or Wye) | Power Distribution Module with Circuit Breakers - 208V Delta | Power Distribution Module with Circuit Breakers - 208V Wye | Power Distribution Module with Circuit Breakers - 415V Wye | Power Distribution Module without Circuit Breakers - 208V Delta | Power Distribution Module without Circuit Breakers - 208V Wye | Power Distribution Module without Circuit Breakers - 415V Wye |
|--|--|---|--|--|--|---|---|---|
| Electrical | | | | | | | | |
| Input Voltage | 208V/415V | 208V/415V | 208V | 208V | 415V | 208V | 208V | 415V |
| Input Current | 240A | 120A | 120A | 120A | 120A | 120A | 120A | 120A |
| Output Voltage | 208V/415V | 208V/415V | 208V | 208V | 415V | 208V | 208V | 415V |
| Output Current | 240A | 120A | 30A per outlet | 30A per outlet | 30A per outlet | 30A per outlet | 30A per outlet | 30A per outlet |
| Breaker Size | - | (4) 30A | (4) 30A | (4) 30A | (4) 30A | - | - | - |
| Mechanical | | | | | | | | |
| Dimensions- Length Installed | 808.5mm (2.7ft) | 2594.4mm (8.5ft) | 2551.6mm (8.4ft) | 2551.6mm (8.4ft) | 2551.6mm (8.4ft) | 2551.6mm (8.4ft) | 2551.6mm (8.4ft) | 2551.6mm (8.4ft) |
| Dimensions- Height Installed | 146.8mm (0.5ft) | 72.8mm (0.2ft) | 73.6mm (0.2ft) | 73.6mm (0.2ft) | 73.6mm (0.2ft) | 73.6mm (0.2ft) | 73.6mm (0.2ft) | 73.6mm (0.2ft) |
| Dimensions- Depth Installed | 114.3mm (0.4ft) | 113.9mm (0.4ft) | 113.9mm (0.4ft) | 113.9mm (0.4ft) | 113.9mm (0.4ft) | 113.9mm (0.4ft) | 113.9mm (0.4ft) | 113.9mm (0.4ft) |
| Weight | 15.3lbs | 37.1lbs | 35.7lbs | 35.7lbs | 35.7lbs | 33.1lbs | 33.1lbs | 33.1lbs |
| Outlet Connections | N/A | N/A | NEMA L15-30 | NEMA L21-30 | IEC 60309 3P+N+E 6h (IP44) | NEMA L15-30 | NEMA L21-30 | IEC 60309 3P+N+E 6h (IP44) |
| Environmental | | | | | | | | |
| Operating Temperature (With Power per Rack De-Rated to 80%) | 50°F to 140°F (10°C to 60°C) | | | | | | | |

For more information on the Panduit Overhead Power Distribution System please visit:
<https://www.panduit.com/opd>

Overhead Power Distribution (OPD) Modules

PFM

The Power Feed Module (PFM*) takes the power from the building breaker panel and distributes it to the Power Distribution Module with Breakers (PDM-B) and the Power Extension Module (PEM). The patent-pending connectors on the right side of the PFM are completely finger safe.



**The PFM is the only module that must be installed by a licensed electrician.*

PEM

The Power Extension Module (PEM) takes the power from the PFM and extends it to the Power Distribution Module without Breakers (PDM-NB). The PEM has four 30A circuit breakers that provide protection for outlet housings 5-8 on the PDM-NB. Note: Electrical regulations require that the circuit breakers be within 10 feet of the source, which is why the breakers are on the PEM.



PDM-B

The Power Distribution Module with Breakers (PDM-B) takes power from the PFM and distributes it to Outlet Housings 1-4. The PDM-B also has four 30A circuit breakers that provide protection for outlet housings 1-4.



PDM-NB

The Power Distribution Module without Circuit Breakers (PDM-NB) takes power from the PEM and distributes it to Outlet Housings 5-8. Circuit Breaker protection is provided by the breakers on the PEM.



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