



# **SmartZone™ Overhead Power Distribution (OPD)**

*Groundbreaking approach to distribute power to the rack*

**PANDUIT®**





# SmartZone™ 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 SmartZone™ Overhead Power Distribution (OPD).

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

# SmartZone™ Overhead Power Distribution (OPD) Technical Overview

## 8-Cabinet Solution



## Technical Information

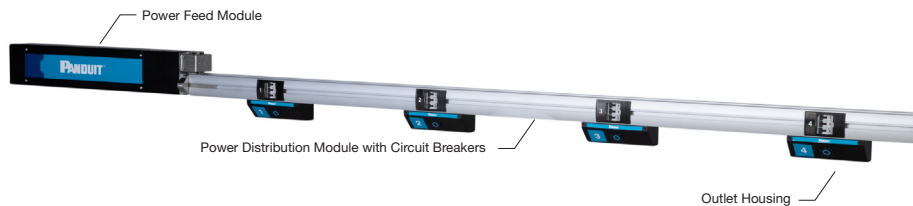
**General specifications:** Maximum eight cabinets per system. Total amperage is 240A. Power delivered to the rack: three-phase 30A circuits.

**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	Optimal Cabinet Width	Part Number
208V	3-Phase	3-Phase Wye	8.6 kVA	30A	Compression Connectors	NEMA L21-30	UL 857- North America	600mm	208Y3-21LHH2B
208V		3-Phase Delta				NEMA L15-30			208D3-21LHH1B
415V		3-Phase Wye	17.3 kVA			IEC 60309 3P+N+E 6h 30A (IP44)			415Y3-21LHH3B

## 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	Optimal Cabinet Width	Part Number
208V	3-Phase	3-Phase Wye	8.6 kVA	30A	Compression Connectors	NEMA L21-30	UL 857- North America	600mm	208Y3-11LHH2B
208V		3-Phase Delta				NEMA L15-30			208D3-11LHH1B
415V		3-Phase Wye	17.3 kVA			IEC 60309 3P+N+E 6h 30A (IP44)			415Y3-11LHH3B

## Agency Compliance

**Electrical:** UL 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).

# SmartZone™ 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
<b>Electrical</b>								
<b>Input Voltage</b>	208V/415V	208V/415V	208V	208V	415V	208V	208V	415V
<b>Input Current</b>	240A	120A	120A	120A	120A	120A	120A	120A
<b>Output Voltage</b>	208V/415V	208V/415V	208V	208V	415V	208V	208V	415V
<b>Output Current</b>	240A	120A	30A per outlet	30A per outlet	30A per outlet	30A per outlet	30A per outlet	30A per outlet
<b>Breaker Size</b>	-	(4) 30A	(4) 30A	(4) 30A	(4) 30A	-	-	-
<b>Mechanical</b>								
<b>Dimensions— Length Installed</b>	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)
<b>Dimensions— Height Installed</b>	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)
<b>Dimensions— Depth Installed</b>	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)
<b>Weight</b>	15.3lbs	37.1lbs	35.7lbs	35.7lbs	35.7lbs	33.1lbs	33.1lbs	33.1lbs
<b>Outlet Connections</b>	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)
<b>Environmental</b>								
<b>Operating Temperature (With Power per Rack De-Rated to 80%)</b>	50°F to 140°F (10°C to 60°C)							

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

# SmartZone™ 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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