



Optima™ 320 Series PDUs

Light Industrial Solutions for General Purpose Applications

Marway's Optima 3 Series power distribution units provide the core essentials of an industrial PDU in our most budget-conscious package yet. This line of 1U PDUs focuses on the features and configurations we're most often asked about for general purpose duty, while still protecting downstream equipment.

Industrial Heritage

This compact 1U chassis features very similar core features and construction of Marway's 5 and 8 series of PDUs.

- EMI filter for common and differential mode noise reduction.
- Surge protector for voltage spike suppression.
- UL 489 hydraulic magnetic circuit breaker(s) with power on indicator(s).
- Black powder coated 18 ga steel chassis with removable and reversible rack mounting ears.

Focused, but Flexible

Focusing on the essentials of general purpose applications, the Optima 320 offers lower costs and quicker availability than Marway's build-to-order lines. Still, the 11 models provide the flexibility to match many applications.

- High outlet count in two configurations:
 - 14 outlets (2 on front, 12 on back) with a single breaker.
 - 16 outlets (8 on front, 8 on back) with dual breakers.
- 5-15R, 5-20R, or C13 outlets, or one model with a mix of (4) C19 and (12) C13 outlets.
- 120 Vac, or 100–240 Vac 1 ϕ power sources.
- 12 A, 16 A, or 24 A continuous-duty capacity (15 A, 20 A, or 30 A maximum capacity).
- The 14-outlet models are available in versions with on-board digital metering of current and voltage.
- The 16-outlet, 8-front/8-back models provide flexibility in environments where the PDU may be repurposed in front vs. rear access use.
- The MPD 329001-000 model is the simplest unit with (14) 5-15R outlets, a power on indicator, a 9 foot cord, and an all-steel 1U chassis. There is no breaker, no surge protector, and no EMI filter.
- All models are UL certified and CE marked.



This 2-front/12-back configuration is available with 5-15R, 5-20R, or C13 outlets.



For greater versatility, this 8-front/8-back configuration has dual circuit breakers and is available with 5-15R, 5-20R, or C13 outlets.



Specialized for information server environments, this model provides a mix of C19 and C13 connections on both the front and back.



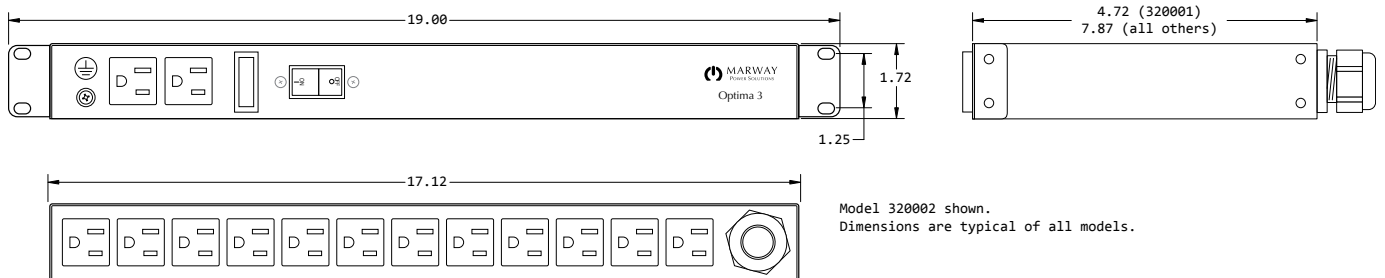
The 2-front/12-back configurations also come in versions with digital metering of current and voltage.



The MPD 329001-000 is the simplest unit for the most basic applications still needing a 1U steel chassis.

Optima 320 Series PDUs

Product Specifications



Inlet Voltage Options

- 120 Vac, 50/60 Hz, single phase
- 100–240 Vac, 50/60 Hz, single phase
- All voltages are listed as nominal input sources.

Current Capacity Options

- 12 A continuous load / 15 A maximum
- 16 A continuous load / 20 A maximum
- 24 A continuous load / 30 A maximum
- Based on NEC regulations, traditional load ratings are de-rated to 80% for continuous duty. For example, a traditional 30 A maximum rating is now interpreted and labeled as a 24 A continuous duty rating. Optima current ratings are shown with continuous/maximum rating values.

Overload Protection (standard)

- All models (except 320001) include UL 489 circuit breakers.
- All 120 Vac models (except 320001) use single-pole breakers.
- All 200–240 Vac models use double-pole breakers.
- All multi-breaker models are wired with one outlet group per breaker.

Regulatory

- All models certified to UL 62368-1.
- All models CE marked.
- All models are RoHS compliant.
- All models are REACH compliant.

Environment

- Operating Temperature: 32°F to 122°F
- Maximum Altitude: 6,562 feet
- Relative Humidity: 5% to 85% non-condensing

Digital Meter (some units)

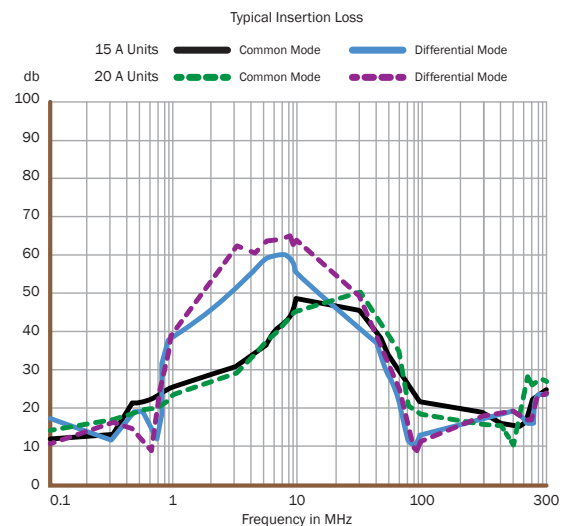
- Volts RMS is measured $\pm 2\%$, updated every 15 s.
- Amps RMS is measured $\pm 2\%$, updated every 15 s.

Surge Suppression (standard)

- All models (except 320001) include a thermally protected varistor.
- 120 Vac models (except 320001) have a single-pulse energy rating of 200 joules.
- 240 Vac models have a single-pulse energy rating of 350 joules.
- All models (except 320001) have a peak surge current rating of 10,000 A for a single pulse 8x20 μ s wave.

EMI Filter (standard)

- All models (except 320001) include an EMI filter.
- All models have ≤ 0.6 mA leakage.



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Product Models and Ratings

Model ^{1,3}	Inlet Configuration ²	Outlet Configuration (B: back, F: front)				Breakers	Meter
		IEC C13	IEC C19	NEMA 5-15R	NEMA 5-20R		
320001	120 Vac, 1 Φ , 50/60 Hz 5-15P • 9 foot cord			B: 12 F: 2		(none)	
320002	120 Vac, 1 Φ , 50/60 Hz 5-15P • 9 foot cord			B: 12 F: 2		(1) 15A	
320003	120 Vac, 1 Φ , 50/60 Hz 5-20P • 9 foot cord				B: 12 F: 2	(1) 20A	
320004	100–240 Vac, 1 Φ , 50/60 Hz C20 chassis	B: 12 F: 2				(1) 20A	
320005	120 Vac, 1 Φ , 50/60 Hz 5-15P • 9 foot cord			B: 8 F: 8		(2) 15A	
320006	120 Vac, 1 Φ , 50/60 Hz L5-30P				B: 8 F: 8	(2) 20A	
320007	100–240 Vac, 1 Φ , 50/60 Hz C20 chassis	B: 10 F: 10				(2) 20A	
320008	100–240 Vac, 1 Φ , 50/60 Hz L6-30P	B: 6 F: 6	B: 2 F: 2			(2) 20A	
320009	120 Vac, 1 Φ , 50/60 Hz 5-15P cord			B: 12 F: 2		(1) 15A	Yes
320010	120 Vac, 1 Φ , 50/60 Hz 5-20P • 9 foot cord				B: 12 F: 2	(1) 20A	Yes
320011	100–240 Vac, 1 Φ , 50/60 Hz C20 chassis	B: 12 F: 2				(1) 20A	Yes

1 — Full model numbers begin with MPD, and are followed with -000 to allow for future variations. Example: MPD 320001-000

2 — Refer to the Optima 320 Series Operating Guide, or Marway's Standard Products Catalog, for complete details about unit and branch power ratings. This table is a basic overview of connections.

3 — All models except 320001 include surge suppression and EMI filter.



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Industrial Heritage

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- Surge protector for voltage spike suppression.
- UL 489 hydraulic magnetic circuit breaker(s) with power on indicator(s).
- Black powder coated 18 ga steel chassis with removable and reversible rack mounting ears.

Focused, but Flexible

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- Model 329001
 - Outlets: (15) 5-20R with a single 20 A breaker.
 - Inlet: 5-20P with 9' cord, 16 A continuous duty.
- Model 329002
 - Outlets: (12) C13 and (3) C19 with a single 20 A breaker.
 - Inlet: C20, 16 A continuous duty.
- Model 329003
 - Outlets: (30) 5-20R with a two 20 A breakers.
 - Inlet: L5-30P with 9' cord, 24 A continuous duty.
- Model 329004
 - Outlets: (24) C13 and (6) C19 with a two 20 A breakers.
 - Inlet: L6-30P with 9' cord, 24 A continuous duty.
- All models include on-board digital metering and display of current and voltage for each circuit.
- All models are UL certified and CE marked.



The digital meter auto rotates between displaying voltage and current.



Product Specifications

Inlet Voltage Options

- 120 Vac, 50/60 Hz, single phase
- 100–240 Vac, 50/60 Hz, single phase
- All voltages are listed as nominal input sources.

Current Capacity Options

- 16 A maximum (C20 inlet)
- 16 A continuous load / 20 A maximum (5-20P inlet)
- 24 A continuous load / 30 A maximum (5-30P, L6-30P inlets)
- Based on NEC regulations, traditional load ratings are de-rated to 80% for continuous duty. For example, a traditional 30 A maximum rating is now interpreted and labeled as a 24 A continuous duty rating. Optima current ratings are shown with continuous/maximum rating values except where IEC ratings dictate maximum values only.

Overload Protection (standard)

- All models include UL 489 circuit breakers.
- All 120 Vac models use single-pole breakers.
- All 100-240 Vac models use double-pole breakers.
- All multi-breaker models are wired with one outlet group per breaker.

Surge Suppression (standard)

- All models include a varistor.
- 120 Vac models have a single-pulse energy rating of 200 joules.
- 240 Vac models have a single-pulse energy rating of 350 joules.
- All models have a peak surge current rating of 10,000 A for a single pulse 8x20 μ s wave.

Digital Meter (some units)

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Regulatory

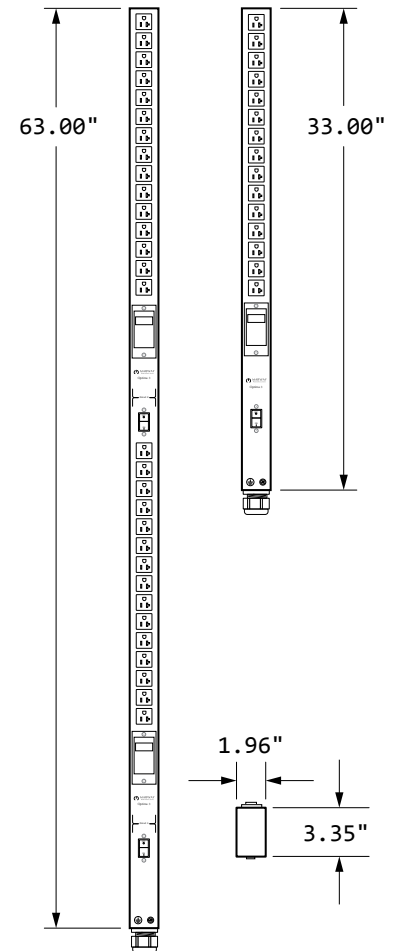
- All models certified to UL 62368-1.
- All models CE marked.
- All models are RoHS compliant.
- All models are REACH compliant.

Environment

- Operating Temperature: 32 °F to 113 °F
- Maximum Altitude: 6,562 feet
- Relative Humidity: 5% to 85% non-condensing

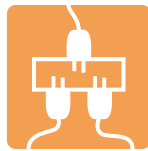
Dimensions

- Typical for all outlet types
- Download detailed drawings from web site





Optima™ PDUs
Custom and Standard
for Ac, Dc, 400Hz



TwinPower™ ATs
Auto Transer Switches
for power redundancy



Commander™ UCPs
Remote and EPO
control panels



PowerPlus™
Turn-key rack
power integration

Contact Our Power Specialists
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Marway is a HEICO Electronic Technologies company.