



300-1,500_{kVA}

Power distribution units

Product specification brochure



U.S. manufactured

Vertically integrated

Configurable

Data center ready

PDU	300 _{kVA}	800 _{kVA}	1,500 _{kVA}
Primary voltage	480 _V	480 _V	480 _V
Max input breaker	600 _A	1,200 _A	2,500 _A
Max subfeed circuits	16 _x	16 _x	16 _x

PRODUCT OVERVIEW

Engineered for critical infrastructure

The Acceleation PDU portfolio is a family of transformer-based power distribution units engineered to deliver reliable, configurable power distribution for hyperscale, colocation, enterprise and AI data centers. Available in 300kVA, 800kVA and 1,500kVA configurations, the portfolio enables operators to match power capacity to the specific requirements of each deployment.

Designed and manufactured in the United States with vertical integration across our supply chain, our PDU product family delivers lead times that overseas-sourced alternatives cannot match. When your schedule matters, domestic manufacturing is not a feature. It is the decision.

THREE CAPACITY TIERS

One portfolio, built for every deployment

300_{kVA}

Right-sized for edge and lower-density deployments

Built for colocation providers fitting smaller tenant pods, edge compute sites and enterprise data centers running lower rack densities. The smallest footprint in the product family at 44 x 48 inches, delivering full-capacity power distribution without oversizing the room around it.

800_{kVA}

Built for high-density deployments

Built for hyperscalers running high-density cabinet rows and AI and cloud GPU operators managing non-linear load profiles, in a 60 x 55-inch footprint engineered to handle the full load of high-density rows without degrading performance.

1,500_{kVA}

Scaled for ultra high-density infrastructure

For hyperscalers and cloud GPU operators who have outgrown the 800kVA tier, and for developers deploying dense, high-power cabinet rows at scale. At 80 x 68 inches, it is the largest unit in the product family, engineered for the highest density workloads data halls run today.



Across every model

- UL 891 listed
- K-13 rated transformer
- K1, K4, K9 and K13 configurations
- 200% oversized neutral
- Aluminum or copper core
- Configurable subfeed arrangements
- Same engineering platform

Moving up a tier means more capacity, not a different partner, a different set of specifications to learn, or a new engineering relationship to build.

Full specification

Power

Specification	300kVA	800kVA	1,500kVA
Rated capacity	300kVA	800kVA	1,500kVA
Primary voltage	480V	480V	480V
Secondary voltage	208/120V, 415/240V, 480V	208/120V, 415/240V, 480V	415/240V, 480V
Phases	3-phase	3-phase	3-phase
Max input breaker	600A	1,200A	2,500A

Physical

Specification	300kVA	800kVA	1,500kVA
Width	44 in	60 in	80 in
Depth	48 in	55 in	68 in
Height	86 in	86 in	90 in
Cabinet access	Front only	Front only	Front only
Cable entry	Top or bottom	Top or bottom	Top or bottom

Subfeed option A, B & C

Specification	300kVA	800kVA	1,500kVA
A quantity	Up to 4	Up to 4	Up to 5
A breaker rating	800-1,200A	800-1,200A	800-1,200A
A description	High-current distribution	High-current distribution	High-current distribution
B quantity	Up to 8	Up to 8	Up to 8
B breaker rating	600A	600A	600A
B description	Mid-range distribution	Mid-range distribution	Mid-range distribution
C quantity	Up to 16	Up to 16	Up to 16
C breaker rating	250A	250A	250A
C description	High-density distribution	High-density distribution	High-density distribution

Transformer

Specification	300kVA	800kVA	1,500kVA
Core material	Al or Cu	Al or Cu	Al or Cu
Temperature rise	150°C	150°C	150°C
Neutral conductor	200%	200%	200%
K-factor rating	K1, K4, K9, K13 (standard)	K1, K4, K9, K13 (standard)	K1, K4, K9, K13 (standard)
Inrush current	Typical 5x (2.5- 9x varies)	Typical 5x (2.5- 9x varies)	Typical 5x (2.5- 9x varies)
Impedance	Up to 8%	Up to 8%	Up to 8%

Controls

Specification	300kVA	800kVA	1,500kVA
Monitoring	HMI display	HMI display	HMI display
Emergency stop	EPO switch	EPO switch	EPO switch
Surge protection	Optional SPD	Optional SPD	Optional SPD

AVAILABLE OPTIONS Configured for your site

Electrical

SPD surge protection

Optional surge protection integrated at the distribution level, protecting downstream IT equipment from transient voltage events. Available across all three tiers.

Copper core transformer

Upgrade to copper-wound transformer for lower I²R losses, improved efficiency over the lifecycle, and reduced long-term operating cost.

Mechanical

Sidecar enclosure

Optional sidecar for additional circuit capacity, metering, or auxiliary distribution, increasing the primary unit footprint. Available across all three tiers.

Floorstand

Optional floorstand for installations where raised-floor mounting or specific cable management routing is required.

Cable routing

Top cable entry

Route incoming and outgoing cables through the top of the enclosure, standard for overhead cable tray environments.

Bottom cable entry

Bottom cable routing for raised-floor data centers, keeping cables beneath the floor until they enter the unit from below.

WHY ACCELEVATION

Advantages that drive project success

1

U.S. manufacturing and vertical integration

Accelelevation designs and manufactures in the United States, with more than 1.5 million square feet of purpose-built operations. The result is greater control over quality, configuration and delivery schedules - supported by accessible engineering throughout the project.

2

Configurable by design

Choose from three capacity tiers, multiple subfeed arrangements, aluminum or copper transformers, and top or bottom cable entry. Each PDU can be configured around the electrical and physical requirements of the deployment.

3

Engineered for specification

Every model is built around a K-13-rated transformer supporting K1, K4, K9 and K13 configurations, a 200% neutral for harmonic-rich loads, and typical inrush of 5x. The portfolio gives engineers a consistent foundation across capacity tiers.

4

Integrated monitoring and protection

An HMI display and EPO switch are included as standard across the portfolio, with optional surge protection available. Front-access design supports installation and maintenance in space-constrained and aisle-contained environments.

5

Transformer flexibility

Select an aluminum-core transformer for cost efficiency or a copper-core transformer for lower losses and potential lifecycle savings. Accelelevation can help evaluate the right option for the application and load profile.

6

One partner from design through installation

Customers work with one Accelelevation team across engineering, manufacturing and installation - reducing handoffs and helping projects move forward with greater speed and accountability.



Power infrastructure engineered to move at the speed of your project.

Specifications are subject to change without notice. All configurations are subject to engineering review and approval. Custom dimensions may be available upon request. © 2026 Accelelevation. All rights reserved. For use by qualified electrical professionals and authorized representatives only.

Product inquiries

Contact your Accelelevation sales representative for configuration support, quote requests and CAD documentation.

Technical support

User manuals, single-line drawings and commissioning support available for all PDU installations.