

# UPS Systems

Reliable, scalable power solutions, protecting critical applications worldwide.



**PANDUIT®**

## Introduction

In today's fast-paced world, ensuring uninterrupted operations is paramount. That's where intelligent UPS systems come into play. Designed to provide immediate backup power during utility outages, these solutions are essential for maintaining business continuity and protecting critical IT equipment. UPS systems not only deliver this reliability but also shield sensitive electronics from damaging power surges and voltage fluctuations, allowing critical assets to operate at peak performance.

Empowering businesses to maintain seamless operations, our UPS systems represent a commitment to reliability and innovation. With a focus on future-proofing operations and meeting industry standards, Panduit power solutions are trusted by leading organizations to keep critical processes running smoothly. Experience peace of mind with a UPS System that is both dependable and forward-thinking.

## Your Outlet for Leadership and Innovation

<b>Top 3</b> Global Connectivity Provider	<b>112 Countries</b> Customers in 112 countries	<b>Serving 91%</b> Global Connectivity Provider	<b>5,000+</b> Infrastructure Experts
<b>2,000+</b> Patents Globally	<b>18</b> R&D Labs and 200 R&D Personnel	<b>Industry Leaders</b> Leadership on Industry-Standards Boards	<b>\$1B</b> Annual Revenue Exceeding \$1 Billion USD

## Put Our Alliances to Work for You

Our strategic partners are ready to broaden your options and apply best practices to your infrastructure. Let our long-term alliances with industry leaders be the longevity and interoperability of your data center.



**Rockwell  
Automation**

**Prysmian  
Group**

## UPS System Markets and Sectors



In the healthcare, education, and financial sectors, reliable power solutions are essential for maintaining uninterrupted operations and safeguarding critical data. Our UPS secures continuous power for imaging devices and electronic health records in healthcare, supports stable learning environments and smart classrooms in educational institutions, and provides robust power protection for seamless transaction processing and data management in the financial sector.

### Top Use Case Scenarios:

- **Healthcare:** Ensuring operation of imaging devices and electronic health records.
- **Education:** Maintaining power for smart classrooms and IT infrastructure.
- **Financial:** Protecting data centers and ensuring seamless online banking operations.

## Ideal Applications Systems



Our UPS systems cater to data centers, enterprise networks, and industrial environments by ensuring continuous power for critical IT operations, supporting business continuity for communication and data systems, and enhancing operational resilience in industrial automation and control systems.

### Top Use Case Scenarios:

- **Data Centers:** Ensuring high availability for cloud services and applications.
- **Enterprise Network:** Maintaining power for communication and collaboration tools.
- **Industrial Network:** Supporting power for automation and control systems in manufacturing.

# UPS Categories and Series Overview

## Line-Interactive UPS:

The SteadyPulse UPS series offers robust line-interactive UPS solutions designed to provide reliable power from the edge to the data center. Perfect for small-to-medium-sized businesses, these UPS systems allow for continuous operation during minor power disturbances and outages. Featuring automatic voltage regulation (AVR), line-interactive UPS systems correct minor power fluctuations without switching to battery power, extending battery life and maintaining a stable output voltage for the connected equipment.

- **VA Capacity:** Ranging from 1000 VA to 3000 VA, accommodating various power requirements.

- **Form Factor:** Available in 2 RU and tower configurations, offering flexibility for different installation needs.

- **Battery Transfer Time:** 4-8 milliseconds

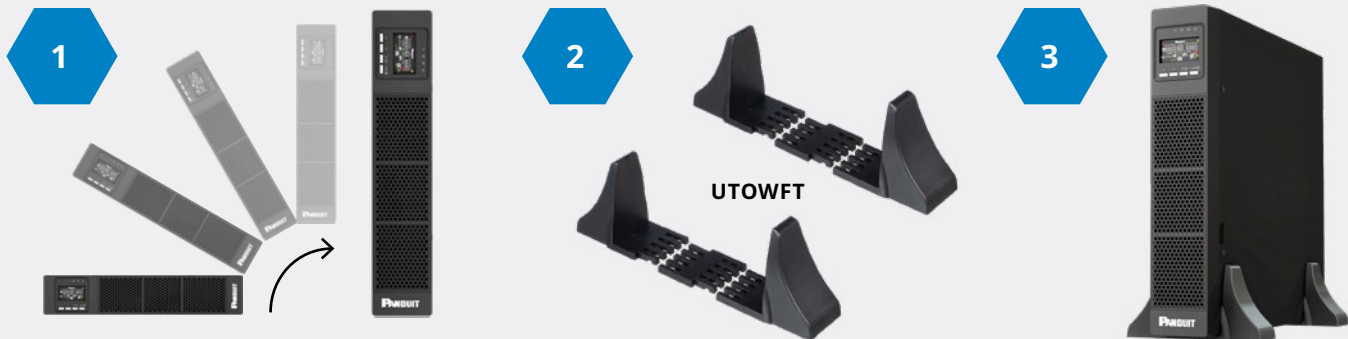
- **UPS Output:** Pulse-Width modulation technology, ideal for less sensitive electronics.

- **Battery Technology:** Lithium

- **Network Communications:** DCIM Ready

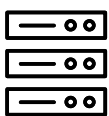
## Tight on Space? Flip it and Secure it.

It's as simple as 1, 2, 3.



## Boost and Trim for Perfect Power Stability

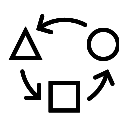
Automatic Voltage Regulation (AVR) provides steady voltage supply to critical equipment, protecting against fluctuations and extending battery life by reducing the need for battery use during minor power disturbances.



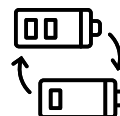
Compact Form  
Factor



Energy Star  
Rated



Flexible Power  
System



Hot Swappable  
Battery



Lithium  
Battery



Scalable  
Runtime



## Feature Overview: U02N11L

Line Interactive  
SteadyPulse™ UPS

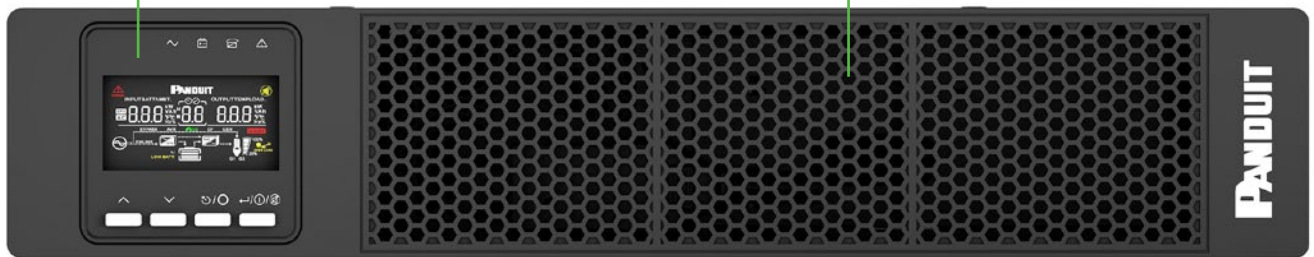
Front



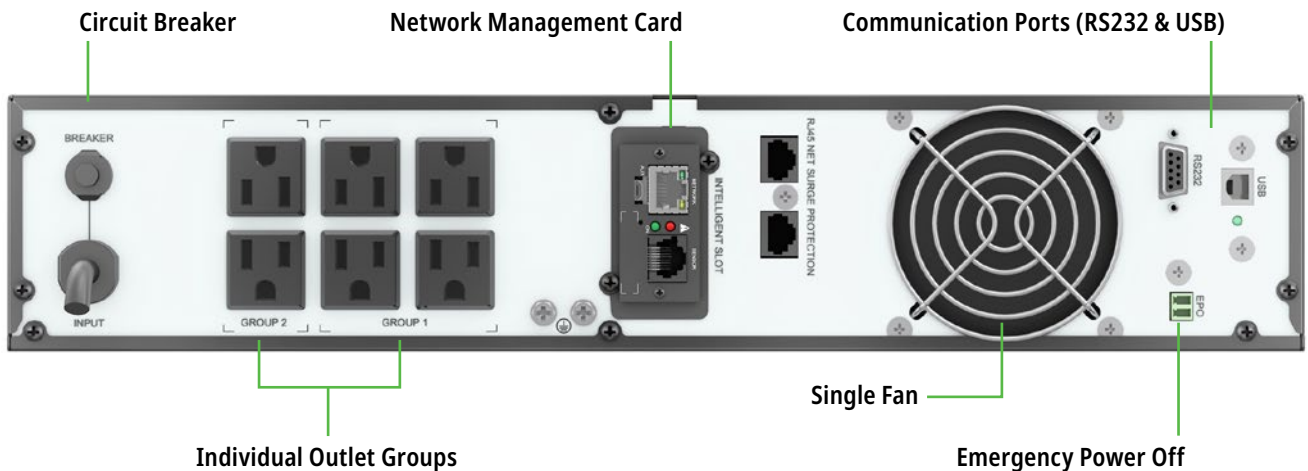
LED Display Screen

ON/OFF Toggle Switch

Replacement Battery Compartment Door



Back



Circuit Breaker

Network Management Card

Communication Ports (RS232 & USB)

Individual Outlet Groups

Single Fan

Emergency Power Off

► Learn more about  
the U02N11L

## True Online Double Conversion UPS

The SteadySine UPS series represents the pinnacle of power protection with its true online double-conversion technology and pure sine wave output. Ideal for mission-critical applications such as data centers and industrial environments, SteadySine UPS systems provide continuous and clean power by converting incoming AC power to DC and then back to AC. This process confirms the highest level of power quality, eliminating interruptions caused by power outages, voltage sags, and surges.

### Product Highlights

- **VA Capacity:** 1 kVA to 80 kVA
- **Form Factor:** 2U - 7U Tower models. Providing versatile solutions for various operational setups.
- **Battery Transfer time:** Zero Transfer time
- **Battery Output:** Pure Sine Wave Technology
- Lithium & VRLA Options Available
- **Network Communications:** DCIM Ready

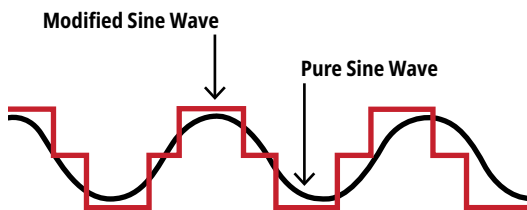


### Future-proof with a stepdown transformer

Integrate a step-down transformer to achieve seamless voltage compatibility to power diverse devices across different voltage environments, maximizing your UPS investment while creating a reliable and steady performance for critical applications.

## Pure Sine Wave Technology

Delivering a consistent pure sine wave output, for optimal performance and protection for sensitive electronic equipment. Providing seamless power transitions, improved device longevity, and compatibility with a wide range of critical applications.

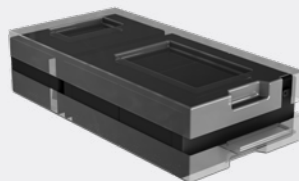


### Benefits

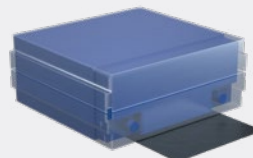
- Helps sensitive electronics run efficiently and without risk
- Reduces wear and tear on connected devices
- Eliminates harmonics, stabilizes frequency, and offers power factor correction for reliable and steady performance

## Flexible Battery Solutions for Enhanced UPS Performance

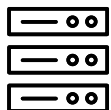
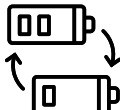
Panduit double conversion UPS systems offer the flexibility of both lithium-ion and VRLA battery options, providing multiple solutions to meet the demands of today and fit best for operational and budgetary requirements.



VRLA

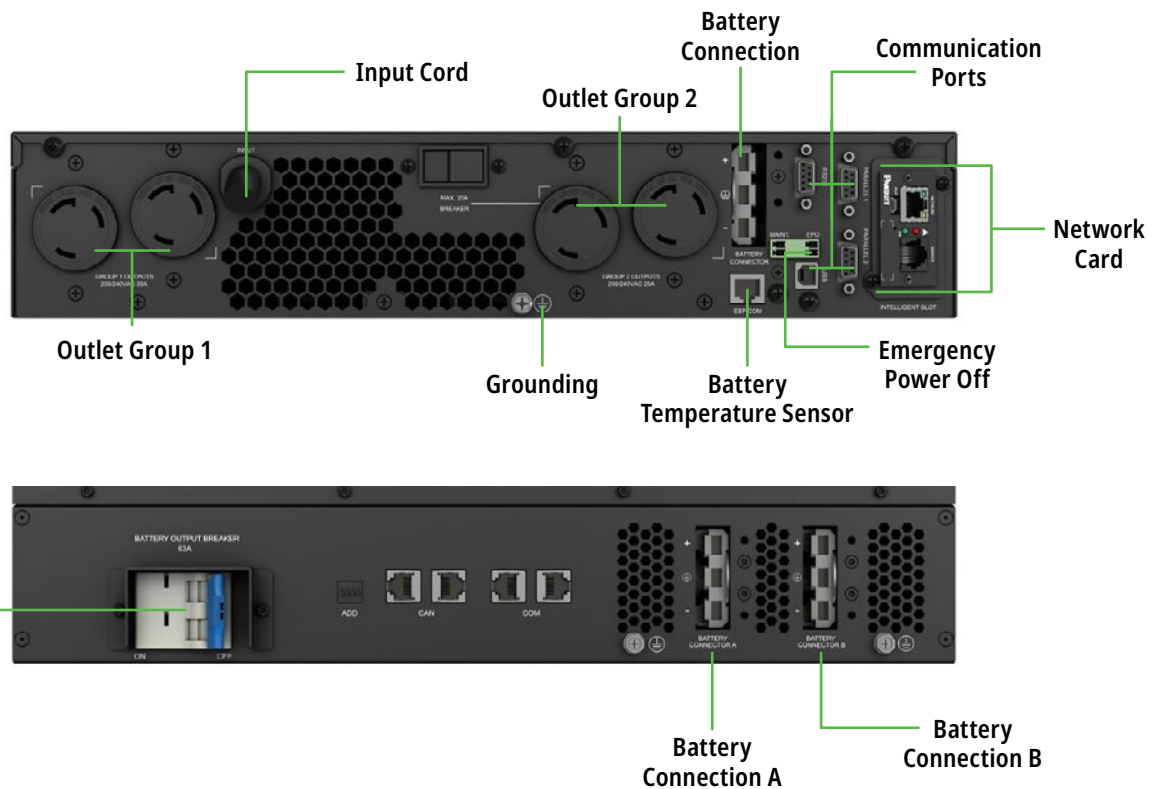
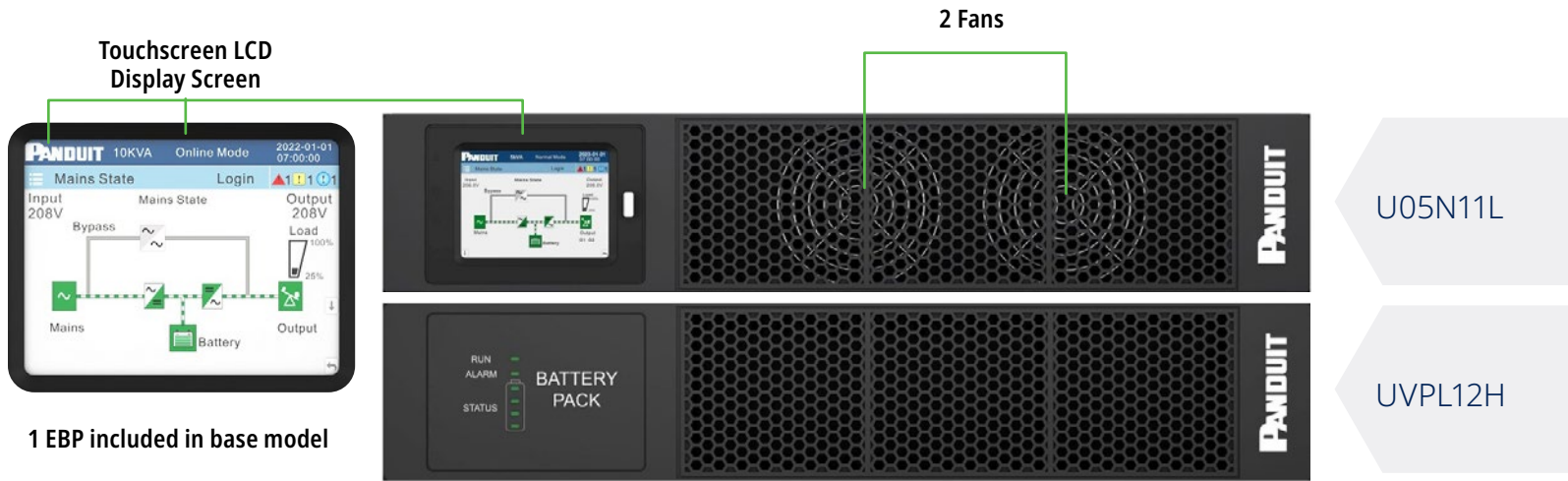


Lithium

Compact Form  
FactorEnergy Star  
RatedFlexible Power  
SystemHot Swappable  
BatteryLithium  
BatteryPure Sine  
WaveScalable  
RuntimeZero Transfer  
Time

## Feature Overview: U05N11L and UVPL12H

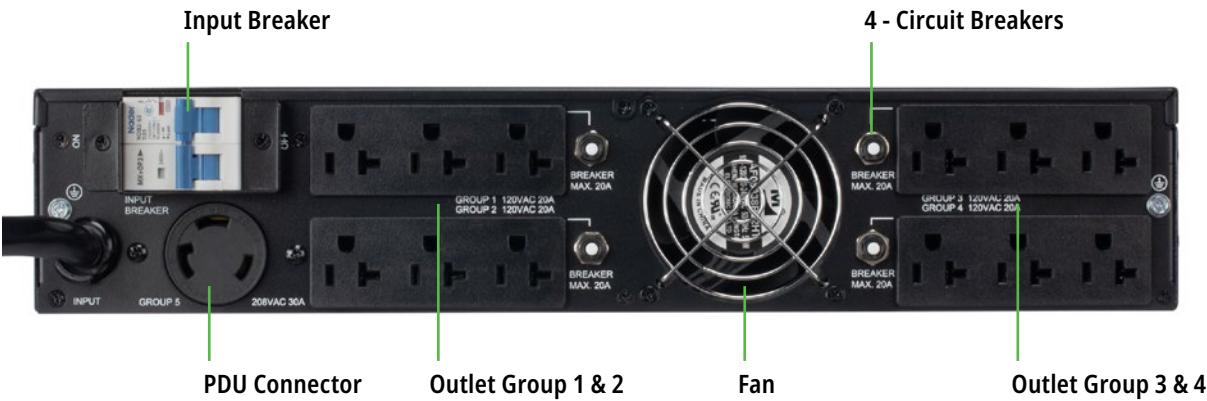
True Online  
SteadySine UPS



➤ Click here to take a deeper dive into the U05N11L

# Feature Overview: U05N11V and UTFMRDU

True Online UPS and  
Step-Down Transformer

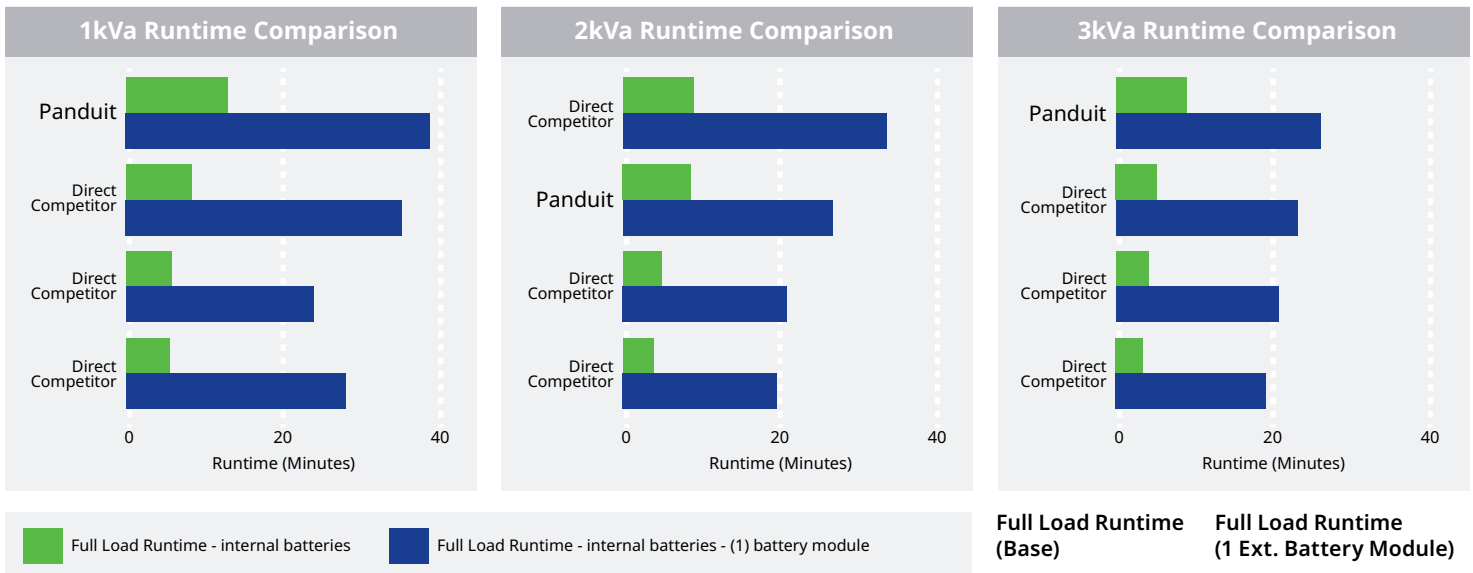




## Pack a Punch

### Get more runtime in a smaller footprint

Panduit rackmount UPS Systems paired with a VRLA external battery.  
Outweighs the competition



Full Load Runtime (Base)

**10.00**  
PANDUIT AVERAGE

**5.29**  
OTHERS

Full Load Runtime (1 Ext. Battery Module)

**30.33**  
PANDUIT AVERAGE

**24.68**  
OTHERS

## Redundancy and Paralleling

Snap into a seamless, scalable UPS System  
that evolves with your needs











Our innovative lithium powered Double Conversion UPS solutions are designed with ease and efficiency in mind, allowing you to effortlessly connect multiple units and battery packs to customize the system to meet evolving power demands.



- **High-Density, Scalable Power:** Expand from 1 to 4 UPS units (5–40 kVA)
- **Extended Runtime:** Scalable batteries for long-lasting power
- **Optimal Power Factor:** Unity power factor offers greater efficiency
- **Versatile Voltage:** Supports single-phase 208/240V
- **Superior Double Conversion:** Delivers top power quality
- **SmartECO Efficiency:** Achieve up to 98% efficiency
- **Comprehensive Monitoring:** Temperature, humidity, and electronic sensors included
- **Seamless Connectivity:** Wireless Wi-Fi for easy management

# The Future is Now

Top 10 reasons to switch to a lithium-ion powered UPS

 <p><b>Longer Battery Life</b> Lithium-ion batteries typically last two-to-three times longer than VRLA batteries, reducing the frequency of replacements and maintenance.</p>	 <p><b>Advanced Monitoring and Management</b> Lithium-ion UPS systems often come with advanced battery management systems (BMS) that provide real-time monitoring and predictive maintenance, enhancing reliability and reducing unexpected failures.</p>
 <p><b>Lower Total Cost of Ownership (TCO)</b> The extended lifespan, reduced maintenance, and energy savings associated with lithium-ion UPS systems result in a lower TCO over the system's lifecycle.</p>	 <p><b>Better Temperature Tolerance</b> Lithium-ion batteries can operate efficiently across a broader temperature range, reducing the need for extensive cooling systems and associated costs.</p>
 <p><b>Higher Efficiency</b> Lithium-ion UPS systems result in a lower TCO over the system's lifecycle.</p>	 <p><b>Improved Safety</b> Advances in lithium-ion battery technology have improved safety features, reducing the risk of thermal runaway and other hazards associated with older battery technologies.</p>
 <p><b>Lithium-ion Batteries</b> Recharge much faster than VRLA batteries, minimizing downtime and ensuring quicker recovery during power outages.</p>	 <p><b>Reduced Environmental Impact</b> Lithium-ion batteries are more environmentally friendly due to their longer lifespan and lower toxicity compared to lead-acid batteries, contributing to sustainability goals.</p>
 <p><b>Higher Energy Density</b> Lithium-ion batteries offer higher energy density, meaning they can store more energy in a smaller footprint, saving valuable space in data centers and other environments.</p>	 <p><b>Scalability</b> Lithium-ion UPS systems are more easily scalable, allowing for incremental upgrades as power demands grow without significant overhauls.</p>

## Lithium-Ion outperforms VRLA when compared...

Battery Feature	VRLA Battery	Lithium-Ion Battery	Lithium-Ion Benefit
Standard battery life	3 – 5 years	8 – 10 years	Up to 3 times longer life
Typical cycle life	200 – 260	2000	Up to 10x more discharge/recharge cycles
Battery recharge time (@90%)	3– 6 hours	<2 hours	Fast recovery time safeguards your critical IT equipment in the event of multiple outages
Battery weight	10.9 kg	5.9 kg	45% lighter making it ideal for small spaces and wall-mount racks
Warranty	2 or 3 years	5 years	Worry-free operation so you can set-it and forget-it

▶ Check out our full line of Lithium Solutions

# Hot Swappable Capabilities

Stay Powered, Stay Connected –  
Hot Swappable Designs for Seamless Operation

Intelligent hot swappable capabilities allow critical operations to stay powered in times of need. With this non-disruptive technology, you can replace the main battery system, intelligent network card, and environmental sensors without powering down the UPS system. This feature is vital for maintaining continuous uptime and productivity, keeping operations running smoothly and efficiently.

## Why It Matters:

- **Zero Downtime:** Perform maintenance and replacements without interrupting operations.
- **Enhanced Reliability:** Maintain optimal system performance and connectivity.
- **Operational Efficiency:** Quick and easy component swaps reduce maintenance time and effort.

## Use Case Scenarios:

- **Data Centers:** Replace internal batteries during peak operation hours without shutting down servers, ensuring continuous data processing and uptime.
- **Enterprise Networks:** Swap out intelligent network cards during critical business operations, maintaining network stability and preventing any disruptions in communication.
- **Industrial Environments:** Replace environmental sensors on the fly to keep monitoring systems active, ensuring safety and compliance without halting production lines.

Experience the convenience and reliability of non-disruptive hot swappable capabilities, designed to keep operations running smoothly and efficiently when needed most.



# UPS Utility Software

| Elevate UPS Management

Experience seamless management of our UPS systems with Panduit UPS Utility software. Designed for efficiency, this free utility tool enables bulk configuration, firmware updates, and device health check, helping power infrastructures operate at peak performance. This comprehensive software simplifies UPS management, reduces downtime risk, and enhances reliability, making it an essential asset for any organization.

## Use Case Scenarios

- **Edge Sites:** Centrally manage devices across multiple locations
- **Industrial Settings:** Simplify integration and operation with bulk configuration
- **Enterprise Networks:** Quick deploy security patches through firmware updates

## Benefits

- **Increased Reliability:** Keep UPS systems running smoothly.
- **Efficiency Gains:** Streamline configuration processes.
- **Enhanced Performance:** Allows for optimal system performance.



▶ Review our online resource center



# Elevate Your Power Infrastructure with Panduit Onsite Services

In the modern IT landscape, where complexity is the norm and efficiency is paramount, Panduit UPS Services stand as your steadfast ally. We don't just set up your critical power systems; we ensure they thrive.

## 6 WAYS

### Panduit Protects You & Your Operations

#### 1 Extended Warranties



#### 2 Onsite Services



#### 3 Preventative Maintenance (PM) Services



#### 4 Battery Replacements



#### 5 Site Assessment Services



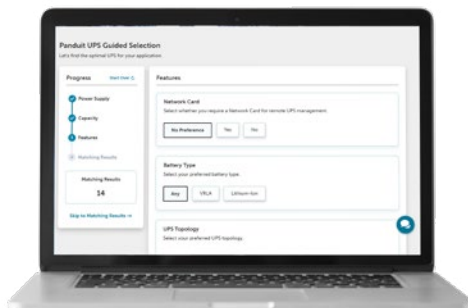
#### 6 Installation Services



[View our  
UPS System  
Selector Guide](#)

## How to Select a UPS

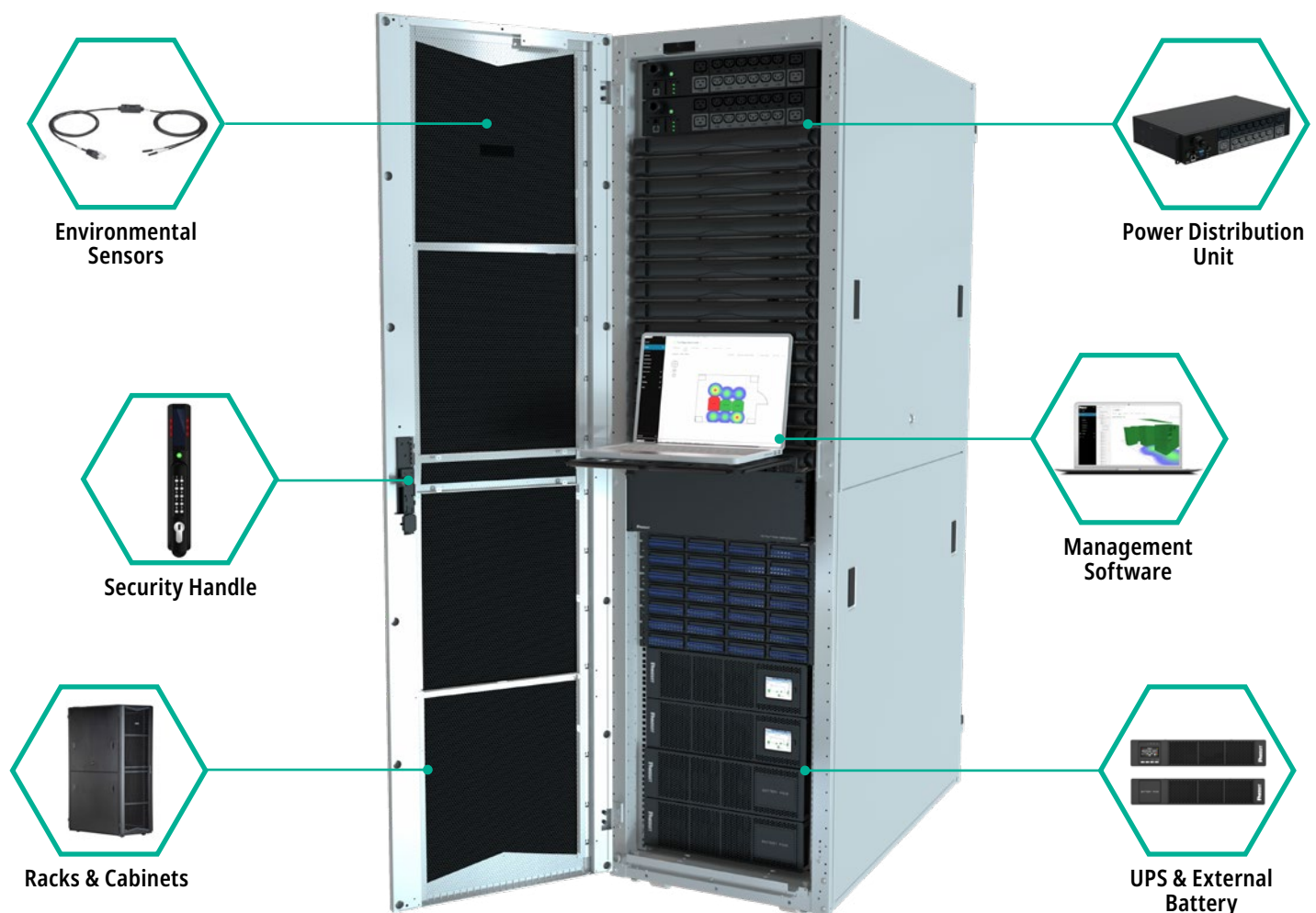
Find the exact Panduit UPS to help you hit your carbon footprint and operational efficiency goals.



## Integrated Power Solutions

Our integrated power management ecosystem is the intelligent core of your data center, with our PDU functioning as the pivotal connection point. This setup establishes a seamless interaction between the resilience of UPS systems, the comprehensive distribution capabilities of our PDUs, and the acute awareness brought in by intelligent environmental sensors and rack access controls. Together, they form a cohesive network, all monitored under the vigilant eyes of third-party DCIM software.

This intelligent integration allows for precise power monitoring, proactive environmental adaptation, and fortified security, all within the robust framework of our 2 and 4-post racks and enclosures. It's this strategic alliance of technology that grants you sophisticated control over your data center operations, optimizing every aspect from performance to resource utilization, and ensuring that your critical power needs are not just met but anticipated and managed with precision.



▶ Learn more  
about our  
Critical Power  
Solutions

# Product Part Numbers and Descriptions

Item Number	Region	Phase	Nominal Input Voltage (V)	Input Plug	Output Capacity (VA)	Nominal Output Voltage (V)	Output Receptacles	Battery Type	External Battery Pack	Internal Replacement Battery Cart.	No. of RU Space
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## Line Interactive Steady Pulse UPS

<b>U01N11L</b>	North America	Single	110/120	NEMA 5-15P	1000	110/120	(6)5-15R	Lithium-Ion	–	ULC024	4
<b>U02N11L</b>					2000					ULC048	
<b>U03N11L</b>				NEMA L5-30P	3000		(4)5-20R, (1)L5-30R			ULC372	

## Double Conversion Steady Sine UPS

U01N11V	North America	Single	110/120	NEMA 5-15P	1000	110/120	(6)5-15R	VRLA	UVP036	UVD036	2	
U01N12L	EMEA		220/230/240	Schuko CEE 7/ EU1-16P and BS1363A		220/230/240	(8)C13	Lithium-Ion	–	ULC024	4	
U01N12V								VRLA	UVP036	UVD036	2	
U01N13V	North America		110/120	NEMA 5-15P		110/120	(6)5-15R		UVP024	UVD024		
U02N11V					NEMA 5-20P			UVP048	UVD048			
U02N12L	EMEA		220/230/240	Schuko CEE 7/ EU1-16P and BS1363A	2000	220/230/240	(8)C13	Lithium-Ion	–	ULC272	4	
U02N12V								VRLA	UVP048	UVD048	2	
U03N11V	North America		110/120	NEMA L5-30P	3000	110/120	(4)5-20R, (1)L5-30R		VRLA	UVP072		UVD072
U03N12L	EMEA		220/230/240	Schuko CEE 7/ EU1-16P and BS1363A		220/230/240	(8)C13, (1)C19	Lithium-Ion		–	ULC372	4
U03N12V					VRLA			UVP072	UVD072	2		
U05N11L	North America		208/240	NEMA L6-30P	5000	208/240	(2) L6-30R, (2) L6-20R	Lithium-Ion	UVPL12H	–	4	
U05N11V							(4)L6-30R		VRLA	UVP240	UVD240	6
U05N12L	EMEA		220/230/240	3 Pol Terminal (L-N-G)	6000	220/230/240	(2)C19, (3)C13, HW Terminal (L+N+G)	Lithium-Ion	UVPL12H	–	4	
U06N11L	North America		208/240	3 Pol Terminal (L-L-G)		208/240	(2) L6-30R, HW Terminal (L+L+G)		VRLA	UVP240	UVD240	6
U06N11V							(2)L6-30R, HW					
U06N12L	EMEA		220/230/240	3 Pol Terminal (L-N-G)		220/230/240	(2)C19, (3)C13, HW Terminal (L+N+G)	Lithium-Ion	UVPL12H	–	4	
U06N12V							(2)C13, (2)C19, HW		VRLA	UVP240	UVD240	6
U10N11L	North America		208/240	3 Pol Terminal (L-L-G)	10000	208/240	(2) L6-30R, HW Terminal (L+L+G)	Lithium-Ion	UVPL12H	–	4	
U10N11V							(2)L6-30R, HW		VRLA	UVP240	UVD240	6
U10N12L	EMEA		220/230/240	3 Pol Terminal (L-N-G)		220/230/240	(2)C19, (3)C13, HW Terminal (L+N+G)	Lithium-Ion	UVPL12H	–	4	
U10N12V							(2)C13, (2)C19, HW		VRLA	UVP240	UVD240	6
U10N32V		Three				380/400/415	3 Pol Terminal (3P+N+PE)	380/400/415, 220/230/240		HW (3P+N+PE), (L+N+G)	VRLA	UVP480
U15N32V					3 Pol Terminal		15000					
U20N32V	20000											

## Step-Down Transformer

<b>UTFMRDU</b>	North America	Single	208	NEMA L6-30P	5000	120/208	(1) L6-30R, (12) 5-20R	–	–	–	2
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## Maintenance Bypass Switch

<b>UMB20K</b>	EMEA	3/1	380/400/415	–	–	380/400/415, 220/230/240	HW (L+N+PE), (L1+L2+L3+N+PE)	–	–	–	3
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## Product Part Numbers and Descriptions (continued)

Part Number	Description	Battery Type	DC Voltage	Hot-Swappable	Replacable Batteries	Internal Battery	Mounting	No. RU Space
<b>External Batteries</b>								
UVP024	VRLA External Battery Pack	VRLA	24	Yes	Yes	UVD024	Horizontal/Vertical	2
UVP036			36			UVD036		
UVP048			48			UVD048		
UVP072			72			UVD072		
UVP240			240			UVD240		
UVP480			480			UVD480	Horizontal	4
UVPL12H	Lithium-Ion 5-10kVA External Battery Pack	Lithium-Ion	192		No	NA	Horizontal/Vertical	2

Part Number	Description	Battery Type	DC Voltage	Hot-Swappable
<b>Internal Batteries</b>				
UVC024	UPS Lead Acid Battery Cartridge	VRLA	24	Yes
UVC036			36	
UVC048			48	
UVC072			72	
ULC024	UPS Lithium-Ion Replacement Battery Cartridge	Lithium-Ion	24	
ULC048			48	
ULC272			72	
ULC372			72	
UVD024	UPS Replacement VRLA Battery Cartridge	VRLA	24	
UVD036			36	
UVD048			48	
UVD072			72	
UVD240			240	
UVD480			480	

Part Number	Description	Mounting	No. RU Space
<b>Accessories</b>			
UNCP01	Intelligent Network Management Card	—	—
URC005	Relay Card		
U2PTRMT	Rack Mount Rail Kit	Horizontal	2
URM480			3
URMKIT2			2
UTOWFT	Tower Stabilizer Bracket	—	—



We have the knowledge  
and experience to help you  
make the most of your  
infrastructure investment.

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