

# Vertiv™ PowerUPS 6000 Industrial



## Highlights

### Peak performance

- Withstands harsh industrial environments with IP42 protection
- Delivers peak performance in high heat conditions
- Independent dual-protection air duct system

### Simplified design

- True Front access design for easy serviceability
- Space saving/compact footprint

### Reliability

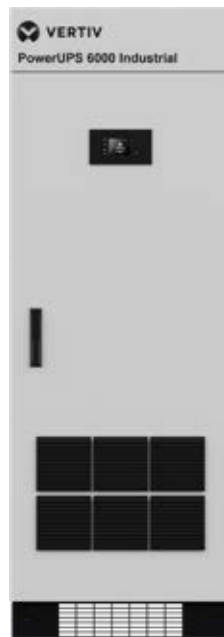
- Advanced IGBT Rectifiers
- Optional output transformer enables galvanic isolation

### Ideally suited for these Industries:

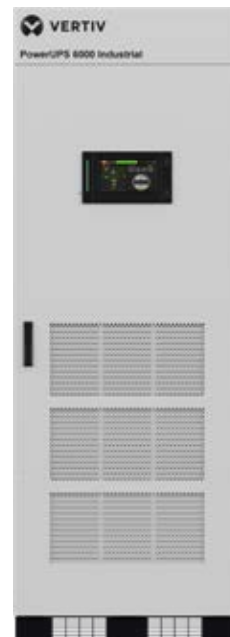
- Oil and gas
- Cement
- Transportation
- Steel plants
- Food and beverages
- Packaging

## Vertiv™ PowerUPS Industrial: Unmatched reliability for industrial power protection

Vertiv™ has consistently set the standard for dependable power solutions in critical datacenter environments. Building on this legacy, Vertiv™ now presents the PowerUPS 6000 Industrial UPS (**6-200kVA**) systems, engineered to meet the stringent demands of industrial applications. These UPS solutions offer the renowned reliability of Vertiv™, now enhanced with advanced features such as an **IP42 protection** rating to support Industry 4.0 connectivity and automation needs. Designed for seamless integration into diverse commercial and industrial settings, these compact UPS systems assure continuous power for essential operations, automation, and process controls, even in challenging environments.



Vertiv™ PowerUPS 6000 Industrial 6-40kVA



Vertiv™ PowerUPS 6000 Industrial 60-120kVA



Vertiv™ PowerUPS 6000 Industrial 200kVA

**IP 42**

Peak performance  
in extreme  
conditions





### Peak performance in harsh environments

- Designed to excel in most demanding conditions
- **IP42** rating: High protection against dust and particulates
- Innovative air duct system: Independent system-level and module-level compartments for enhanced heat dissipation
- Suitable for high temperatures: Up to 50°C
- High-altitude capacity: Up to 3000 meters
- Durable components: Conformal coated PCBA's and LSOH cabling
- Certified standards: **EN50121** and **EN50171**



### Advanced monitoring & diagnostics

- Vertiv™ PowerUPS Industrial: Integrated with modernized global HMI
- Real-time monitoring : Includes waveform capture and continuous load tracking
- Large intuitive 9-inch full color touchscreen HMI: Easy interaction with installed equipment
- Detailed system insights : High accuracy metering and internal component health monitoring
- Waveform data tracking: Records electrical waveform of voltage and current and for root cause analysis of power quality issues.
- RDU-120 communication card: Modbus and common management protocols



### High availability

- Scalability and redundancy: Supports growing power demands, can be paralleled up to 1+1 for capacity or redundancy with optional output transformer.
- Without output transformer: Vertiv™ PowerUPS Industrial UPS can be paralleled in either 4+0 or 3+1 or 2+1 configurations
- Flexible battery compatibility: VRLA, Ni-Cd, Li-ion
- High battery charging capacity: Minimize downtime and enhances continuous availability
- Longer runtimes: Continuous availability for commercial and industrial processes



### Reliability redefined

- Advanced IGBT rectifier technology: Delivers continuous power
- Adapts to power grid fluctuations: Wide input voltage range of -40% to +25%
- Reduces harmonics when equipped with an optional output transformer
- Resilient and dependable: Suitable for light industrial applications



### Simplified installation and maintenance

- Compact footprint and simplified design: Enables maximum uptime in tight spaces, including wall-mount or confined area installation
- True-front access design: Easy maintenance with **0.5h MTTR** (Mean Time to Repair)
- Integrated monitoring through GHMI: Allows continuous power protection
- Intelligent maintenance bypass: Ensures power protection without compromising the footprint



### Matching ancillaries (Optional)

- Factory-built Output transformer
- Input transformer cabinet
- Top cable entry cabinet



# Technical specifications

## Output capacity kVA

## Vertiv™ PowerUPS 6000 industrial

Single-phase input/single-phase output	6										
Three-phase input/single-phase output		10	20	30	40	60	80	100	120		
Three-phase input/three-phase output		10	20	30	40	60	80	100	120	160	200

## Input characteristics

Rated input voltage	220/230/240V (Single-phase input model) 380/400/415V (Three-phase input model)	
Input voltage range	- 40% ~ +25% *1	
Rated input frequency	50/60Hz	
Input frequency range	40Hz ~ 70Hz	
Input power factor	0.95	
Input current harmonic content	<5%	
<b>DC characteristics</b>		
Battery switch	Lead acid, nickel cadmium, and lithium batteries *2	
Rated voltage of battery	For the single-phase output of 6–10 kVA, the options include 144 V, 192 V(Rated), 216 V, and 240 V. For other specifications, the options include 288 V, 360 V, 384 V(Rated), 432 V, and 480 V. *3	360V ~ 600V Adjustable 384V (Rated), *3

## Output characteristics

Rated input voltage	220/230/240V(Single-phase)/380/400/415V(Three-phase)	
Output power factor	1	
Voltage stability	<1% in steady state, <5% in transient state	
Frequency stability	±0.1Hz	
Frequency synchronization range	±10%	
Transient response time	20ms	
Inverter overload capacity	<105% for long-term operating; 105%~125% for 10 minutes; 125%~150% for 1 minute	
Total harmonic content THDv	2% for linear load, 5% for non-linear load	
Efficiency	92%	97%
Switching time	0 ms for switching from the main power supply to the battery, and 0 ms for switching from the inverter to the bypass	
<b>System</b>		
Noise	≤ 55dB	≤ 65dB
Protection rating	IP42	
Color	RAL7035 (Other colors can be customized)	
Communication interface	Multi-function communication interface(RJ45)/dry contact interface/smart card box interface, MODBUS communication, SNMP communication	
Cable inlet	Bottom cabling (top cabling optional)	
Overall dimensions (W*D*H mm)	600*850*1710	60-120kVA: 800*850*2250 160-120kVA: 800*850*2250
Operating temperature range	0C° ~ 50C° *5	
Relative humidity	0 ~ 95%	
Altitude	3000 m without derating	
Standards and Certifications	IEC62040 -1/2/3; EN50121; EN50171; EnergyStar; SEMI F47; Seismic; ISTA; Altitude (Infrabrar); Rhos; REACH	

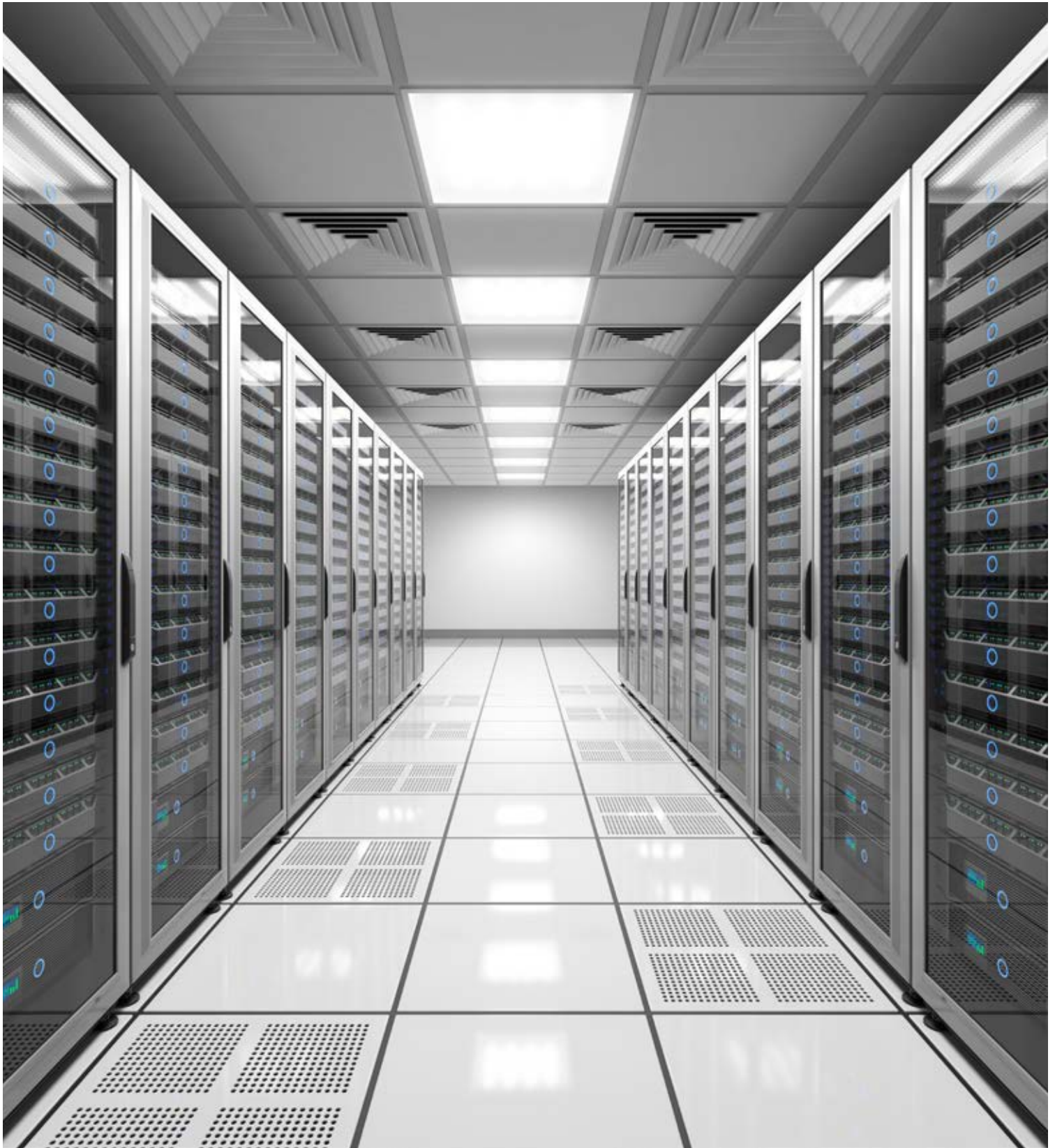
\*1 When the input voltage is below -20%, the load derating, please see the user manual for details.

\*2 nickel cadmium, and lithium batteries need special firmware.

\*3 When the load capacity is lower than the rated value, the UPS load capacity needs to be derated. For the specific battery number of the model, refer to the user manual.

\*4 For specific output power factor, please see the user manual.

\*5 When the temperature is above 40 C°, some models need to be derated. Please contact Vertiv for details.



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