



■ The 3/1phase or 3/3phase UPS for critical applications

Designed specifically for high-density computing environments, the POWERTECH Industrial Corporations USA® Ultimate Power Plus RT® delivers 15, 20 or 25 kW of efficient, reliable power in only 3U of standard rack space, excluding batteries. Expand capacity by combining same capacity modules in a building block fashion to deliver 750 kW (N+1) from double standard rack enclosure. This powerful configuration delivers higher power density than competitive, modular solutions, while dissipating only one-third of the heat. The standard internal batteries provide needed ride through power until an auxiliary power source takes over or systems are gracefully shut down. Extend runtime up to 94 minutes at full load\* (or 250 minutes at half load) with extended battery modules (EBMs)

#### **Features**

- Protects mission-critical applications with innovative backup power technology designed specifically for high-density computing environments
- Supports the constant moves, adds and changes of today's dynamic data centers with a modular, scalable, and flexible backup power architecture
- Conserves valuable rack space with 15, 20 or 25 kW of power in only 3U of rack height, excluding batteries
- Accommodates growth by enabling building-block upgrades from 15 to 750 kW in double rack enclosure
- Reduces energy costs and cooling needs through best-in-class efficiency performance
- Delivers highest levels of reliability at the rack with patented POWERTECH Hot Sync paralleling technology and intelligent bypass

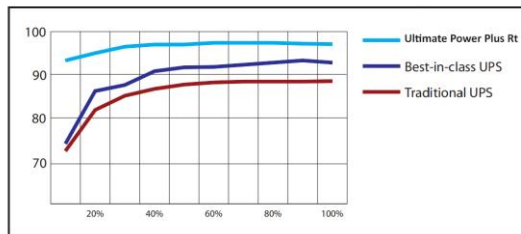
design, field proven in thousands of large data centers globally

- Simplifies installation and service with true plug-and-power connections and hot-swappable batteries and electronics modules
- Increases battery life through ABM® technology, resulting in more uptime and fewer battery replacements

#### **POWER PROTECTION FOR:**

- Blade servers
- Small, medium and large data centers
- Network closets
- PBX and VoIP equipment
- Networking applications: IPTV, security
- Storage devices: RAID, SAN
- Converged infrastructure
- Database clusters

Reduce energy costs with high efficiency As utility rates continue to climb, energy efficiency becomes a sticking point with data center managers. The Ultimate Power Plus RT delivers an outstanding, industry-leading 97 percent efficiency in normal operation. Even at a load of less than 50 percent, where efficiency is typically much lower, this UPS performs more efficiently than competitors' modular products at full load. In addition to dramatic cost savings, high system efficiency extends battery runtimes and produces cooler operating conditions within the UPS. This extends the life of components and increases the life of components and increasing overall reliability and performance. Even small increases in efficiency can quickly translate into thousands of dollars. It's easy to see that the UPPRT pays for itself through energy and cooling savings alone.



Even at very small loads, where you would expect efficiency to be lower, the UPPRT is still more efficient than other UPS products at full load.

### Reduce cooling costs with lower heat dissipation

The high-efficiency Ultimate Power Plus RT reduces the power requirements for the data center. In the example shown, the UPPRT reduces energy costs by an average of \$273 per month. In addition, the high efficiency of a UPPRT reduces overall air conditioning needs by more than one third; multiply that with a reduction in cooling costs by one-third and utility bills are further decreased by an additional \$246 per month. The savings compound with the data center size and the number of UPS products. The low heat dissipation means this UPS can be located close to equipment racks without a concern for creating hot spots in the data center.

### Meet current and changing requirements with modular architecture

The building block of the scalable Ultimate Power Plus RT system is a 3U rackmount module that provides 25 kW of backup power protection. The system expands easily to provide maximum results. As your data center grows, the system's modularity plays a key role in optimizing your capital planning and deployment. Using the patented and field-proven POWERTECH Hot Sync paralleling technology, up to 30 UPPRT UPS modules can be paralleled for extra capacity or redundancy, providing 750 kW of redundant backup power protection in 90 Units.

Patented load-sharing control intelligently distributes the workload among modules

without requiring direct synchronization links among them. Any module can provide backup support for any other, with no interruption or downtime. For instance, in a redundant system you could perform full maintenance on any module without any interruption of conditioned power to the protected IT equipment.

The UPPRT is extraordinarily flexible—configured as a single module or multi-module system (up to 30 modules) in a standard 90U enclosure. The modular design enables you to deploy just the right amount of backup protection at the right price for your current needs and expand later whenever needed. The UPPRT can also be deployed as a single UPS module in 15, 20 or 25 kW sizes. This allows a high power UPS to be placed in the same rack as IT equipment, reducing footprint. In addition, it ensures the backup power is close to the loads being supported so chances of power wiring or human error issues between systems are minimized. This is optimal for high power converged infrastructure applications. Easy setup with simple parallel configuration changes The UPPRT is easy to install, configure, and deploy—and easy to expand later, without help from POWERTECH Industrial Corporations USA. To link multiple UPPRT modules into a parallel configuration, all you need is a UPPRT Parallel Bar—a simple kit installed in the top or bottom of the rack and on the back rail. IT personnel can then simply plug additional modules into the parallel bus bar. The system is intelligent, so it automatically detects paralleled modules and fully configures itself for parallel operations. POWERTECH also offers an assortment of plug-and-play power distribution accessories with various input and output connections to distribute power from the UPPRT to rack power strips or directly to highpower servers. You can choose from distribution designs with or without monitoring capability for redundant or non-redundant applications spanning from 0U to full rack height.

Administrators can monitor and manage the UPPRT using the unit's LCD panel or remote monitoring software. The UPS provides data for the entire multi-module system, as well as the individual module. In addition, a module working in a parallel configuration can be separated at any time and re-deployed as a standalone module to meet a data center's changing requirements.

### **Save space with a high power density UPS**

The UPPRT offers the smallest footprint of any UPS in its class, as well as double the power density of other UPSs on the market. This compact design leaves more space for IT equipment in the rack and data center.



### **Expedite deployment with flexible installation options**

The UPPRT can be deployed in a variety of system architectures to support the specific requirements of your computer room or data center and the desired level of redundancy (Tier I through Tier IV, as defined by the Uptime Institute). Data center managers can tailor

power protection to adapt to changing needs, often without the need for an electrician or service technician.

### **Hybrid power protection**

The UPPRT also offers stronger redundancy of power protection for equipment racks containing critical IT equipment.

- For dual-corded loads with one source on a central UPS and the other on utility power, you can back up selected loads with a local Ultimate Power Plus RT UPS, deployed in a distributed or zone fashion.
- For dual- or single-corded loads on a central UPS, you can back up selected loads with a local UPPRT (distributed or zone) in series with the central UPS. This configuration provides maximum reliability close to critical loads, with minimal heat dissipation and maximum efficiency.

# Integrated and centralized UPS ,ideal for datacenter

MODEL	UPPRT3315	UPPRT3320	UPPRT3325
Power Rating	15KVA/15KW	20KVA/20KW	25KVA/25KW
<i>Main</i>			
Input	3 P + N+ PE		
Rate Voltage	380/400/415VAC (line-line)		
Rate Frequency	50/60Hz		
Input Voltage Range	304~478Vac (line-line),full load 228V~304Vac (line-line),full load; 228V~304Vac(line-line),derate from 75% to 100% load		
Input Frequency Range	40Hz~70Hz		
Input PF	>0.99		
Input THDi	<3% (100% Linear Load)		
<i>Bypass</i>			
Rate Voltage	380/400/415Vac (line-ine)		
Rate Frequency	50/60Hz		
Input Voltage Range	Selectable, -40%~+25%		
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz		
Bypass Overload	100%, Long time;125%,5mins;150%,1min;>150%,1s		
<i>Output</i>			
Rate Voltage	380/400/415Vac (line-line)		
Rate Frequency	50/60Hz		
Output PF	1		
Output THDu	<1%, Linear load;<6%, Non-linear load (IEC/EN62040-3)		
Inverter Overload	110% for 1 hour;125% for 10 min;150% for 1min;>150% for 200ms		
<i>Battery</i>			
Battery number	±240VDC		
Charger Accuracy	1%		
Charger Capacity	up to 20% *Output power		
Battery Cold Start	Yes		
<i>Efficiency</i>			
AC Mode	>96.0%		
Battery Mode	>95.5%		
<i>System</i>			
Display	LED + LCD+ Touch Screen		
Interface	RS232, RS485, Programmable dry contact		
Option	SNMP Card, Parallel, SPD		
<i>Environmental</i>			
Operation Temperature	0 ~ 40 °C		
Storage Temperature	-40 ~ 70 °C		
Relative Humidity	0 ~ 95% Non-condensing		
Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load		
<i>Physical data</i>			
Dimension W*D*H (mm)	438*780*130	438*780*130	438*780*130
Weigh (kg)	30	30	30