

## VERTIV - UPS (Uninterruptible Power Supply)

Do you have UPS, backup power, filtering and surge protection needs?

If your UPS needs seem overwhelming, please ask about our free UPS assessment.



The main criteria for UPS selection is the voltage, power load, desired run time, desired power quality, space and depth of install, outlet plug types and network card.

### UPS Details:

- **Single phase** 120V / 208V: Volts x Amps = VA typical sizes (350VA to 20kVA). Small servers, IT closets, IOT DIN options available \$
- **Three phase** 208V / 480V: Volts x Amps x PF x 1.72 / 1000 = VA typical sizes (5-100kVA). Server rooms, Datacenters, building wide systems, requires custom design \$\$\$
- **Online Double Conversion** = AC-DC/DC-AC conversion, clean power, zero transfer time, needed for generators and sensitive equipment \$\$\$
- **Line Interactive** = interacts with input voltage with some correction, 4-6ms of transfer time at failure, typically (<5000VA) rack/tower \$\$
- **Offline or Standby** = basic backup with minimal voltage correction, 6-8ms transfer time, basic surge protection, typically (<1500VA) tower \$
- **Battery Type** = Lead Acid up to 5-year life \$, Lithium- ion up to 10-year life \$\$

## VERTIV UPS & OTHER POWER PRODUCTS



PST5-500MT120



PSA5-700MT120



PSI5-1500RT120



GXT5-1500LVRT2UXL Lithium



3 Phase UPS



Busway / Powerbar



Racks & Cabinets



PDU's & Monitoring



Aisle Containment



Cooling Solutions



## APPLICATIONS

- How often do you refresh and maintain your IT hardware including servers? What about your UPS equipment?
- If you have a converged data-voice network, have you protected all critical switches?
- What would happen if the power went out at your facility now? (Do you do outage testing?)
- Have you thought about the impact of adding IT loads such as AI?
- Do you need to protect sensitive equipment from outages and before a generator start?
- How much energy do your UPS units consume? How efficient are they?

## UPS SPECIFICS

- What input voltage is currently available at your site? (480v, 208v, 120v)
- What output voltage and plug connections do you need? (NEMA 5-15P, L5-30P, C19/C20)
- What runtime do you want for the estimated power load?
- Are there any clearances or size constraints at UPS location? (Rack or floor mount)
- Is there a generator on site?
- Does the UPS need to be scalable?
- Do you need redundancy? (A & B side power, PDU's)

## SOFTWARE AND CONNECTIVITY

- Is there a need to have orderly scheduled shutdowns?
- Do you want to remotely monitor the UPS? (monitor status, temperature, humidity, video)
- Would you like to remotely notify others of UPS events?
- How will your UPS software manage virtual servers during an extended power outage?
- Do you need a network card? Do you have cyber security or ISO audit requirements?

## SERVICE

- Do you need immediate factory response?
- What kind of parts and labor coverage do you need? (startup, service, preventative offerings available)
- Do you want any type of preventive maintenance?

