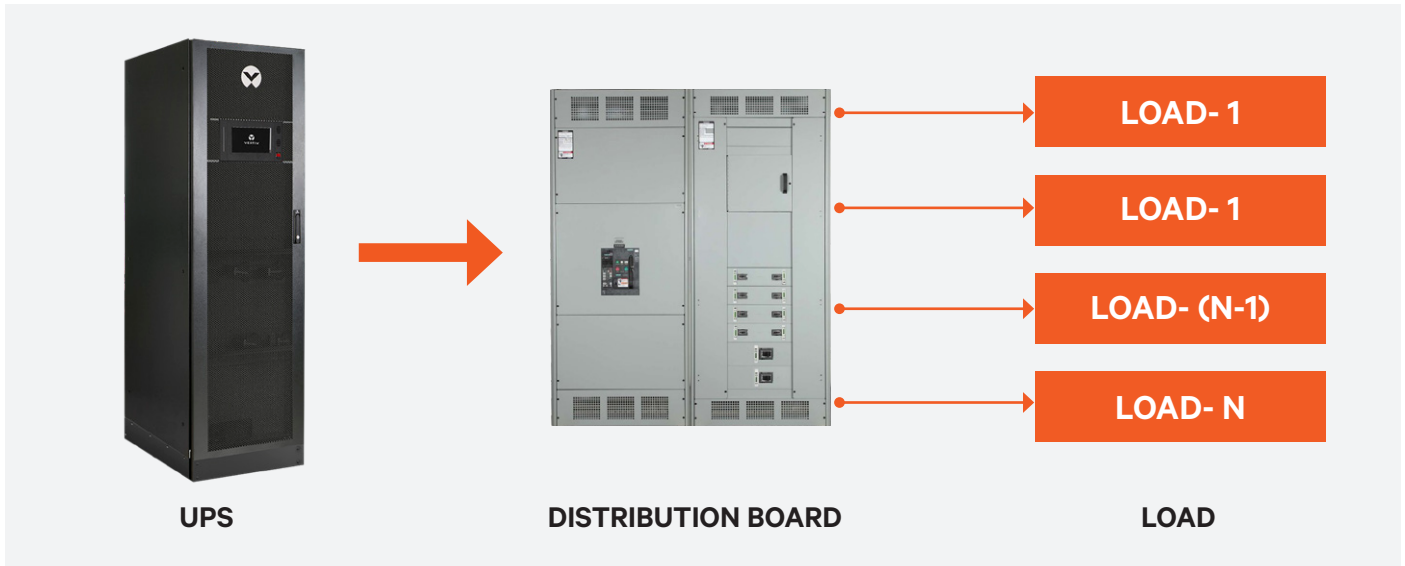


What is distribution in UPS power system?

Delivery of electric power from UPS to various individual equipment's based on load demand is distribution.



In Conventional distribution system as shown in above image uses distribution board to distribute power to various loads.

Few drawbacks of conventional system are:

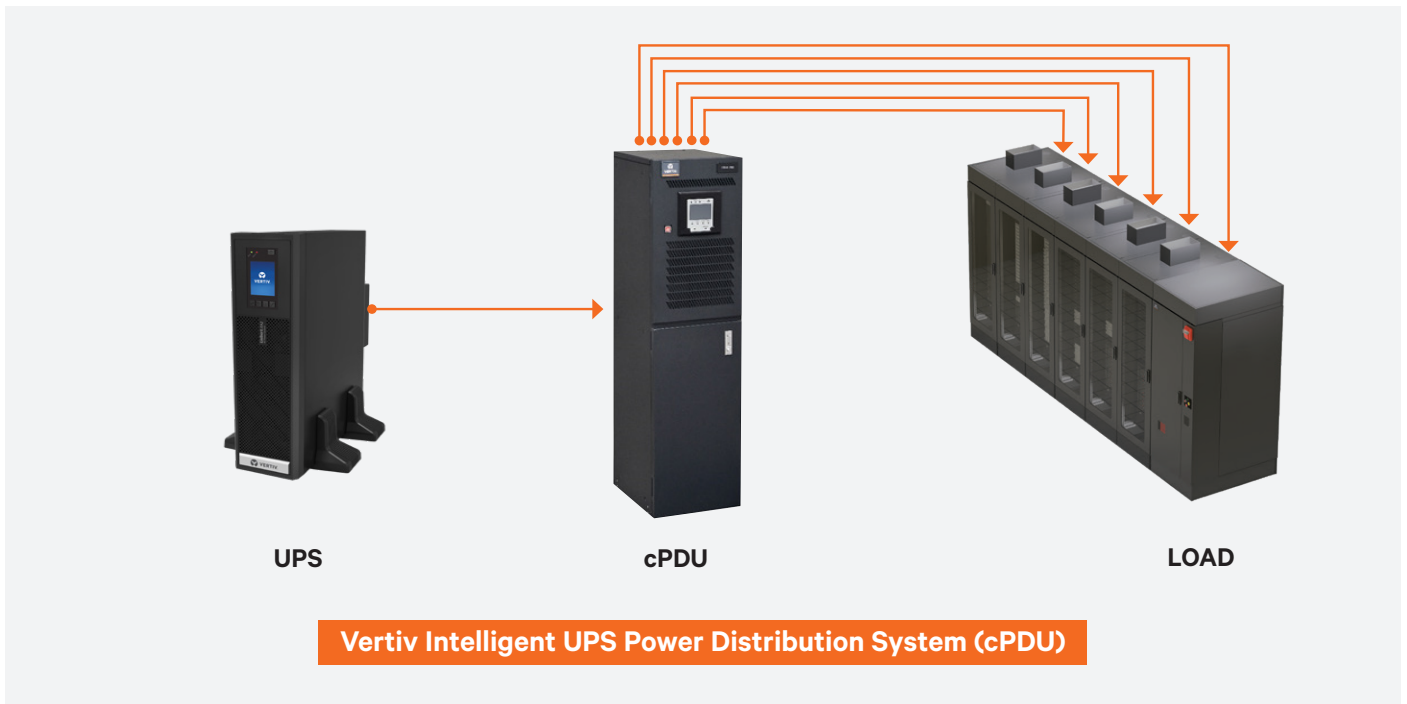
- A) If Load-1 acts abnormally this may result in tripping of the distribution Board feeder breaker or Main breaker. If Main breaker trips this will disturb the entire loads which connected to this DB. In this case even though all the critical loads are connected to UPS system, since distribution system is non-intelligent type and any abnormality in the loads will not be identified in the initial stage to prevent the tripping of feeder breaker or main breaker.
- B) Similarly, if there is any problem with cable termination will also lead to tripping of breakers.

What is cPDU?

In order to overcome the conventional Distribution system limitation, Vertiv presents **Intelligent Distribution System** where, user can monitor individual load behavior.

Few Advantages of having intelligent distribution system are:

- A) User will get prior information in case of any abnormality in the load behavior so that user can take preventive action before it trips the breaker.
- B) User can achieve hassle free operation.



In above, UPS is connected to cPDU to distribute power from UPS to Racks. Every Rack level power behavior can be monitored on cPDU and any abnormality will activate alarm so, that user can take necessary preventive action. An important advantage is, monitoring happens at cPDU terminal level, even if there is any malfunction at the cable end will get captured.

Applications in Various Industries:

1. Manufacturing Industry
2. R&D Labs and Test Benches
3. Medical Diagnostic Centers
4. Pharmaceutical Industry
5. IT / ITES (KPOs, BPOs)
6. Educational Institutes



In above image of Manufacturing industry are connected to UPS and distribution is happening through cPDU. As we explained earlier every machine power behavior is monitored and cPDU will give alarm for any abnormality.



cPDU in R&D Laboratories and Testing Benches

Similarly, we can provide cPDU other applications like test benches where user can monitor power behavior of each test bench.



cPDU in Medical Diagnostic Centers and Pharma Industries

Similarly, we can provide cPDU for pharma industries to monitor power behavior of each machine.