

UPS multiple battery cabinets in parallel





Overview

Can a parallel redundant system use a separate battery cabinet?

There are two possible configurations for battery connection of the parallel redundant system. The two UPS modules may share the same battery cabinet(s), or each module may use a separate battery cabinet(s). Figure 7 shows a diagram of the parallel redundant system with UPS modules utilizing separate battery cabinets.

How many UPS modules can be paralleled?

A parallel configuration is not limited to two UPS modules. It frequently includes up to four modules. With some Eaton three-phase UPSs, you can parallel as many as eight modules. a single system.

What are the options for a parallel UPS system?

Many options are available for parallel UPS systems, such as: Wraparound maintenance bypass, to allow loads to keep running (off straight utility power) even if the parallel system is unavailable, such as during a natural disaster Redundant breakers in the tie cabinet, to permit maintenance of the primary breakers without turning the system off.

Are parallel UPS systems a good choice for a data center?

In fact, redundancy is a requirement of data centers at Tier II and above. (Parallel redundant UPS systems are naturally lightly loaded and can be quite inefficient. To improve this condition, high-efficiency modes are especially useful in parallel systems). As a result, parallel UPS systems are becoming commonplace.



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Common Battery Systems in Parallel UPS: Pros and Cons

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Commissioning UPSs in a Parallel System

Table 5-2 Battery settingsItem Setting Description Battery string sharing Set this parameter as required. If the parallel system shares one battery string, set this parameter to Enable. If each ...

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