

**PIENAAR ENERGY (PTY) LTD**

# **Energy Efficiency Comparison of 400V Network Cabinets**



## Overview

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The study concluded that energy savings of approximately seven to eight-percent could be achieved over high efficiency, best practices 480-208 Vac – with a 15-percent electrical facility capital cost savings, as well as a 33-percent space savings, and 200-percent reliability. The study concluded that energy savings of approximately seven to eight-percent could be achieved over high efficiency, best practices 480-208 Vac – with a 15-percent electrical facility capital cost savings, as well as a 33-percent space savings, and 200-percent reliability. of efficiency and reliability. Based on a flexible architecture, 400V DC power can be implemented at a wide variety of different telecom and data centers sites. Whether your site equipment powering needs include 400V DC, 48V DC, or AC power – or a combination of all three – 400V DC can be the. Our vast selection of cabinets, thermal management, racks, enclosures for data centers, telecommunications equipment rooms, and enterprise cabling applications help optimize space, reduce energy consumption, and enhance network reliability. FlexFusion™ Cabinets XG offer a unique universal platform. What Is a Network Cabinet?

A network cabinet (also called a wall-mount cabinet or comms cabinet) is typically shallower and lighter than other types. In fact, these cabinets measure around 600–800 mm in depth. They work best for networking gear like switches, routers, patch panels, and network. nd cost of electricity\*. Heavily unbalanced loads cause incr se of neutral Energy (US DOE) Limit. First class power protection for critical infrastructure. Galaxy VS is. The Nexpan cabinet is specially designed to optimize energy efficiency in your data center, which is one of the most important reasons for developing this platform. By reducing energy consumption, data centers not only save money but also reduce their environmental impact.

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### Efficiency beyond the AC

By adopting new energy efficient power feed architecture 400VDC we can solve the many problems with AC distribution and also in -48VDC distribution and reduce the TCO.

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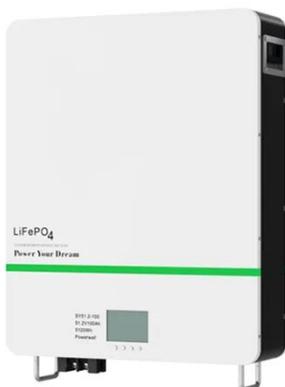
### Evaluating 400V Direct-Current for Data Centers

To figure out the total potential energy savings of 400 Vdc versus 480 Vac power delivery for the 5.5 MW data center addition, Intel used an analytical modeling tool they developed to compare the efficiency ...



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### NETSURE 400V DC POWER SOLUTIONS

By leveraging our in-house knowledge of DC power, inverters, batteries, generators, thermal management, UPS, alternative and other energy sources, we pay attention to the entire system and ...

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## Galaxy VS , Schneider Electric USA

Available in 10-50kVA (208V), 10-100kVA (400V), and 20-100kVA (480V), the Galaxy VS offers power factor flexibility and high overload capability. The Schneider Electric Galaxy VS supports a wide ...



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## Best energy efficiency , Legrand Data Center Solutions

The requirements in the area of energy efficiency are particularly high for server cabinets. After all, IT equipment in server cabinets generates a lot of heat that needs to be dissipated efficiently. To ...

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## Power\_Distribution\_Cabinet\_Level\_Energy\_Efficiency dd

This paper helps companies deploying IT cabinets in a data center to determine what type of power distribution gear to install at the cabinet level by providing a series of questions to be answered.

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## Evaluation of 400V DC Distribution in Telco and Data Centers to ...



Through an analysis of several power delivery architectures, this paper shows that facility-level 400V DC distribution provides increased energy efficiency for data and telco centers over a wide load range.

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## Cable Management

Our vast assortment of cabinets and accessories will help improve your data center energy efficiency while increasing kW-per-cabinet density. Our reliable enclosures and accessories allow you to

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**LPW48V100H**  
48.0V or 51.2V



## Choosing the Right Network Cabinet

Throughout this comprehensive guide, you've learned the fundamental differences between network cabinets and server cabinets. You've discovered how to assess your needs using rack units and ...

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## NETSURE(TM) 95

NetSure 400V DC to -48V DC converter systems can also be used to extend the copper reduction benefits of 400V DC to

existing -48V DC networking loads in core telecom applications.

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