



# Vycon energy storage system

Certified for use with the Eaton 9390, 9395 and 93PM three-phase UPSs, the VYCON flywheel systems offer a highly reliable DC power source. The VDC, VDC-XE and VDC140 Direct Connect UPS backup systems offer an alternative to lead-acid based batteries and bring unprecedented power capacity for instantaneous and reliable backup power.

High Operating Temperature Tolerance Reduce Cooling Costs and Carbon Footprint. LOS ANGELES - August 27, 2019 - VYCON (), a designer and manufacturer of environmentally friendly, high-speed energy storage flywheel systems, announces the addition of the VDC-XXT flywheel model to its VDC line of clean energy ...

DataBank Solves Energy Storage Unpredictability with VYCON's Environmentally Friendly Flywheel Systems PJ Jennings January 23, 2020 CASE STUDIES, Data Center Dallas-based DataBank, a leading provider of enterprise-class data centers, connectivity and managed services, knows first-hand how critical it is to have a highly reliable and ...

Moreover, the lifetime investment in the VYCON energy storage system is much lower than that of batteries. Over time, each VYCON VDC system deployed saves users over \$200,000 when compared to using VRLA batteries, making VYCON's VDC system a financially attractive solution. Having your UPS paired with flywheels for instantaneous backup power ...

The Voltage Direct Connect or VDC is a new DC energy storage solution from VYCON Corporation, a Southern California based company that is a leader in the design, manufacturing and integration of flywheel-based energy storage systems. These systems are used in power quality (UPS) and energy cycling applications such as electric rail systems. ...

Description. VYCON's Direct Connect (VDC) systems are highly efficient kinetic energy storage systems, which provide consistent and dependable energy for critical power systems. The VDC energy storage systems hold kinetic energy in the form of a rotating mass, and convert this energy to electric power through patented technology within the flywheel system.

The VYCON's kinetic energy storage system has been used in a variety of applications for many years. The VYCON system can replace traditional batteries and can perform in applications where batteries and other storage devices fall short. How VDC Systems Work

The project, which took five years of research and development, was titled Way Side Energy Storage System (WESS) and was funded by the Federal Transit Authority (FTA) under the Transit Investments for Greenhouse Gas and Energy Reduction (TRIGGER) Program, part of the American Recovery and



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Reinvestment Act (ARRA) of 2009.

It's the reason VYCON's flywheel energy storage systems can charge and discharge at high rates for countless cycles, and why it's making conventional technologies obsolete. The unique, virtually maintenance-free flywheel technology utilized in VYCON's REGEN flywheel allows users to target energy intensive industries and applications to ...

A More Reliable and Predictable Energy Storage Solution. ... VYCON's VDC flywheel systems are installed in thousands of mission-critical facilities around the world. For DataBank, the VDC units have already been put to the test. "During a recent storm, the VYCON flywheels performed as expected. While system reliability is our priority, by ...

By contrast, VYCON's VDC systems provide reliable energy storage instantaneously to assure a predictable transition to the stand-by gen-set, all in a compact footprint. ... By being first to provide the necessary energy to ride through power glitches, the VDC system significantly increases battery life by absorbing over 98% of the discharges ...

Lower-life-cycle-costs - The ROI is typically within 3-4 years, and over a 15-20-year operation, the VYCON energy storage system's total life-cycle is a fraction in comparison to batteries. Does not require a temperature controlled environment- VYCON units operate in extreme temperatures ranging from -4°F to 104°F (-20°C to 40°C)

The VYCON VDC Flywheel is an energy storage system that holds kinetic energy in the form of a rotating mass and converts this energy to electric power. Using patented technology that includes a high-speed motor generator, active magnetic bearings, and a superior control system, the VYCON VDC Flywheel can charge and discharge at high rates for ...

The VDC flywheel energy storage systems hold kinetic energy in the form of a rotating mass, and convert this energy to electric power through patented technology within the flywheel system. ... These innovative technologies enable the VYCON flywheel to charge and discharge at high rates for countless cycles making conventional technologies like ...

VYCON's VDC-XXT flywheel system provides clean energy storage to protect health facilities 24/7. VYCON's environmentally-friendly, high-speed flywheel system is designed to provide a greener, cost-saving solution as compared to traditional ...

VYCON REGEN Flywheel Energy Storage System captures this power and makes it available to use elsewhere, such as to reduce the power required for another train to move away from a platform or to provide voltage support where power substations may not be able to support the demand. DC AC DC AC

The VYCON magnetic bearing design is based on a combination of permanent magnets, which provides a bias



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field in the gap, and controlled electromagnets, which provide the adjustment and centering of the rotor assembly. ... As a result, VDC energy storage systems have a 20-year life with no bearing maintenance. Bi-Directional Power Converter ...

CERRITOS, Calif. - June 6, 2017 - VYCON will feature its VDC XXE flywheel kinetic energy storage system for emergency backup power at the 7&#215;24 Change International Conference this month. The VYCON VDC XXE provides a reliable, cost-efficient power source for uninterruptible power systems (UPS) in hospitals, data centers, broadcasting ...

Finding a more reliable power backup system that required less maintenance than lead-acid batteries. Solution Cavern Technologies turns to VYCON's VDC-XE flywheel system to provide reliable and cost-effective power backup for its data center clients. VYCON's VDC Flywheel paired with 3-phase Double-Conversion UPS system.

DC Flywheel Storage - Large System . ... VYCON DC Energy Storage. UPS System. UPS Applications - Typical Block Diagram. Rectifier AC/DC. Genset AC. Inverter DC/AC. Utility AC. Critical AC . Automatic output. Transfer Switch. 480 VAC. 540 VDC. DC Energy Storage. Long-term

Vycon is a manufacturer of technologically advanced flywheel energy storage systems. They use patented technology in rotating machinery to provide equipment that is reliable, long lasting, and essentially maintenance free. ... VYCON's VDC Direct Connect UPS systems provide immediate backup power for critical applications, compatible with major ...

The VYCON Direct Connect (VDC&#174;) system stores kinetic energy in the form of a rotating mass and is designed for high power, short discharge applications. The patented technology within ...

Calnetix's global installed fleet of 1,200+ VYCON flywheel energy storage systems has accumulated over 26,000,000 operating hours and 19,000,000 discharge/recharge cycles. Applied in both regenerative energy and critical back-up power applications, the products are sold and distributed by companies like General Electric, Schneider Electric ...

During a power disturbance, VYCON's kinetic energy storage systems provide instant back-up power and will seamlessly transfer to the airport's generators if the power outage is prolonged. Instead of depending on lead-acid batteries - which are unpredictable and require costly maintenance and replacement - VYCON's VDC stores energy ...

CERRITOS, Calif., March 13, 2017 - VYCON&#174; has developed an efficient and economical flywheel energy storage system for capturing, storing and delivering power from regenerative braking in metro rail stations. The VYCON REGEN&#174; for Rail system will be on display in Booth E09 at the Asia Pacific Rail Expo in Hong Kong, Mar. 20-21.



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The new VDC systems feature higher power and more energy storage in a smaller footprint than Vycon's previous generation system. Utilizing Vycon's patented flywheel technology, the VDC ...

VYCON is a leading manufacturer of flywheel-based energy storage systems. VYCON employs the latest technologies . in power electronics, digital controls, magnetic bearings and high-speed motor generators to provide products that are reliable, long ...

systems. These Calnetix core products have been long-standing integral components in VYCON flywheel energy storage systems. VYCON products are applied in the power quality markets to provide back-up power in mission-critical applications and in the energy re-cycling markets for capturing and regenerating energy in electric rail, industrial and

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