04 Maggio 2012

Danfoss Solar presenterà a SolarExpo 2012 gli inverter TXL+ e TLX Pro+

La CEI 0-21, nuova norma tecnica di connessione alle reti di bassa tensione che entrerà in vigore il 1 luglio 2012, renderà obbligatoria la gestione della potenza reattiva e per rispondere a questa necessità Danfoss Solar presenterà a SolarExpo gli inverter trifase TLX+ e TLX Pro+ che, oltre a garantire l'alta affidabilità, includono anche la gestione della potenza reattiva, la regolazione del livello di potenza ed il telecontrollo.

"Essendo molto attivi nel mercato tedesco, in cui già esiste una normativa simile alle CEI 0-21" spiega l'Ing. Lorenzo Colombo, Country Manager Italia di Danfoss Solar Inverters "gli inverter TLX+ e TLX Pro+ sono entrati a far parte della gamma Danfoss già da tempo, quindi i nostri clienti possono acquistare gli inverter conformi a questa normativa fin da subito, senza dover temere la scadenza del 30 giugno". Danfoss Solar ha anche altre novità da presentare a Solarexpo: nuovi accessori per il monitoraggio CLX, adatti a tutte le applicazioni, dagli impianti residenziali a quelli di grossa taglia. I nuovi CLX si avvalgono della tecnologia ConnectSmart, che permette un monitoraggio in tempo reale, 24 ore su 24, 7 giorni su 7. Le caratteristiche tecniche innovative rendono il CLX un vero accessorio "plug & play" ed eliminano complicate procedure d'installazione. Sarà inoltre possibile monitorare l'impianto fotovoltaico continuamente, avere accesso ai dati di produzione sempre e ovunque, controllare il funzionamento degli impianti dei clienti con una comoda app o sul portale web. A SolarExpo sarà inoltre presentata la nuova taglia introdotta nella gamma degli inverter TLX. Il nuovo inverter da 6 kW rappresenta la taglia più piccola dei trifase presenti sul mercato e va ad ampliare l'assortimento degli inverter Danfoss, espandendo le potenzialità per piccole installazioni trifase. Come tutti gli altri TLX, anche la nuova taglia da 6 kW è disponibile in versione Pro, con monitoraggio integrato.

Ritorno all'Indice

05 Aprile 2012

Desigo V5: Innovations from Siemens increase building efficiency

The Siemens Building Technologies Division has introduced version 5 of its Desigo building automation system. Its innovative products such as Total Room Automation as well as efficiency features, like RoomOptiControl and Eco Monitoring, give building operators and users an active role in energy management, leading to permanent reductions in energy and maintenance costs. A state-of-the-art building automation system is always optimized for energy-efficient operation. However, these optimized settings may start to drift over time. One of the underlying causes is often a lack of transparency for users who simply don't know how the setpoint changes they make can impact energy consumption. This is particularly true for air-conditioned rooms which are also equipped with lighting and sun protection controls. The new version of Desigo keeps

room users and building operators apprised of the building's efficiency status. Feedback to users is given using the innovative Green Leaf display, adapted to the expertise and control options of each user group. The system makes it possible to change settings if needed to restore optimal energy efficiency. A study by Technische Universität München (TUM) indicates that by actively involving operators and users in the energy management of a building, energy consumption can be reduced by up to 25% without affecting comfort.

Total Room Automation offers energy savings without reducing comfort

The open, programmable room automation range Desigo Total Room Automation (TRA) is a holistic solution encompassing the HVAC, lighting and shading disciplines. Desigo TRA uses an innovative efficience feature called RoomOptiControl. It automatically detects unnecessary energy consumption in the room and notifies users by changing the color of the Green Leaf icon on the QMX3 room control unit: If room operations are energy efficient, this icon is green. If settings made by a room user lead to unnecessary energy consumption, the icon turns red. To reset room control to energy efficient operation, the user simply presses the display and the Green Leaf icon returns to green.

Using BACnet/IP, PXC3 room automation stations—also part of the TRA package—are integrated seamlessly into the PX automation level with its primary systems (heating generators, HVAC main units and cooling generators). The primary systems are controlled directly through the demand signals from the rooms. This means that the primary systems are only turned on if needed and their operation is adjusted so it meets the room requirements without exceeding them. One room automation station can cover multiple rooms. TRA offers complete integration of KNX, DALI and EnOcean devices; existing or new sensors and actuators from Siemens can be incorporated as well.

Eco Monitoring to reduce energy consumption and wear

Eco Monitoring is another innovative efficiency feature of Desigo. It monitors ongoing operations of HVAC systems based on energy-related quality condition indicators such as readings from temperature, humidity and pressure sensors, runtime, switching behavior and operational performance of the systems. Should deviations from the target state, inefficient operations or increased energy consumption occur, the building operator is notified via the Green Leaf display on the Desigo Insight management station. Current and future international standards (such as EN 15323:2007) require such a feature in order to optimize building operations over the long term.

Desigo Eco Monitoring not only helps optimize energy consumption, it also reduces wear. Thanks to its dynamic behavior and timely reporting, the Eco Monitoring feature recognizes unfavorable system operations early on, allowing operators to intervene immediately before any negative impact occurs. If desired, operators can choose to be notified of unusual events via text messaging (SMS), fax or e-mail.

Expanded networking of the automation level

Starting with version 5, Desigo also offers expanded end-to-end networking of the automation level. Enhanced support for communications standards ensures efficient system integration. The PXC series of compact automation stations has a higher number of universal inputs/outputs, which makes them much more flexible. To protect existing investments, different device generations, such as PTM and TX I/O modules and RXC room controllers, can be used in parallel on the same PX automation station.