

## Media Release

### Increased fan performance is a breeze for US manufacturer

The ability to operate high-velocity fans from a mobile generator source without the need for an input line reactor is helping a US manufacturer improve the performance of its portable fans for drying golf courses.

The company is installing the **Optidrive E3** IP66 / Nema 4X outdoor-rated VFDs on its portable generator fans which are used on golf greens throughout the United States.

The fans are positioned on a mobile platform capable of being towed to any part of a golf course where they provide high-velocity air movement with a 200ft throw over a green. A generator powers the fan.

The company had previously used a VFD where the manufacturer of the drive stipulated input line reactors to protect the drive from power surges and to reduce harmonics. The Optidrive E3 negates the need for this through its innovative design.

“The portable fans are often operating for hours at a time in high temperatures. This is to ensure greens are maintained and playable by blowing substantial amounts of air on to them to reduce the effects of heat and rainfall, meaning reliability is critical,” said Wayne Morris, Vice-President of Invertek Drives USA.

“The Optidrive E3 Nema 4X (IP66) is a robust, outdoor-rated drive which is perfect for the application.”

In addition to not requiring an input line regulator, the E3 used for this application has a dedicated 1ph input drive rated at 5HP, whereas the competitor had used a 10HP drive which had to be de-rated by 50 per cent to allow operation on the generator’s 1ph supply.

The Optidrive E3 comes in four sizes with IP20 and Nema 4X enclosures. It is capable of three modes at the touch of a button - industrial, pump and fan.

This makes it easy to set up and commission for a range of applications and industries and, in conjunction with the Optistick Smart, multiple drives can be commissioned replicating the required parameters within minutes.

E3 Nema 4X is ideal for applications where space is limited, such as on the fan platform.

Not having to install the input line reactors into the platform has also reduced component costs.

More details about the Optidrive E3 range can be found at [www.invertekdrives.com](http://www.invertekdrives.com)



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**For more media information, contact:**

Owain Betts, Media and Communications

t: +44 (0)1938 558 253

m: +44 (0)7787 437 052

e: [Owain.Betts@invertek.co.uk](mailto:Owain.Betts@invertek.co.uk)

w: [www.invertekdrives.com](http://www.invertekdrives.com)

**Notes to the Editor**

**Inverterk Drives**

Inverterk Drives Ltd is dedicated to the design and manufacturing of electronic variable frequency drives for controlling electric motors. Established in 1998 it has grown year-on-year and is now one of the world's leading innovators in VFD technology.

In November 2019 it was acquired by Sumitomo Heavy Industries Ltd (SHI), a leading global manufacturer and distributor of power transmission and control equipment. Inverterk's UK headquarters, located at Welshpool, Powys, UK, houses specialist facilities for research and development, manufacturing and global marketing.

All operations, including research and development, are accredited to the exacting customer focused ISO 9001:2008 quality standard whilst its Environmental Management System is accredited to the ISO 14001:2004 quality standard.

In 2019 a new 5,500 sq. metre global manufacturing and distribution facility was opened at the headquarters, allowing production of up to 400,000 VFDs a year. Inverterk's products are sold globally by a network of specialist distributors in over 80 different countries.

Inverterk Drives unique and innovative Optidrive range is designed for ease of use and meets with recognised international design standards for CE (Europe), UL (USA) and CTick (Australia). More details can be found by visiting [www.invertekdrives.com](http://www.invertekdrives.com).