



OVERVIEW

COMPANY

Invertek Improve Efficiency At Wesley Group.

Global Solutions...

wireless control for hundreds of applications

with Invertek Drives the solutions start here!

- easy to use and incredible performance
- leading edge design and technology
- highly committed to innovation
- products you can rely on
- global support and suppliers

For more information, visit www.invertek.co.uk

WESLEY GROUP

Mobile pressure washers for commercial vehicles

Leeds, UK

Founded in the 1960s, the Wesley Group’s product range includes small mobile pressure washers through to large under body chassis washes for commercial vehicles. Their flagship drive-through Wheel Wash cleans dirty trucks as they leave construction sites, landfill sites and quarries. The system switches itself on when it senses a vehicle approaching the ramp, and switches itself off when it exits.

Without an inverter, the 22kW pumping system requires 90A of starting current and can perform up to forty start cycles per hour (40 vehicles). Even if a 90A supply is present on site, a generator may still be needed if it’s not available at the wheel wash location. The Optidrive VTC overcomes this problem by reducing the current required by the pump at start up by ~45% to around 50A.

The inverter also controls the output of the pump and is used to reduce the speed of the motor during the summer months, when less water is needed to wash the vehicles. The Optidrive VTC also offers a sleep mode for energy saving and an automatic energy optimiser function for periods of light loads.

Mike West - Wesley Group Managing Director explains “the decision to use the Optidrive VTC was taken purely as a commercial decision. In many cases we would miss sales opportunities for our Wheel Wash if we could not offer it with a reduced start-up current, whilst maintaining the full power of the pump unit.”

“After careful research we selected Invertek distributor, Crawford Controls Ltd. They recommended their IP55 enclosure, incorporating an Optidrive VTC, ventilation fan and isolation switch.”

“Our introduction to the inverters has gone very smoothly and customers are reporting improvements in both efficiency and the cleanliness of the road leading away from sites. Customers are also delighted that the UK Government Energy Conservation scheme allows them to claim back the whole cost of the Optidrive.”

The innovative and compact Optidrive VTC combines ease of use, simple installation and commissioning with good looks robustness and reliability - making it the lowest cost solution for virtually all variable torque applications between 1.5 and 160kW.

The entire product range has a unified control interface and with only 14 standard parameters to adjust, it could not be easier or quicker to use.

Optidrive VTCs optical interface allows wireless communication with the unique Optiwand CE Plus for fast and accurate product configuration. The drive also incorporates MODBUS communication with other control equipment.



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