

DELTAsafe® is a multi-functional (3-1) inverter protective system for the transportation and lifting of power inverters (DELTA modules) for onshore and offshore wind farms.

## BENEFITS



DELTAsafe®'s innovative, lightweight casing will help you protect your critical components, and reduce warranty claims on your power modules.

- Complete cushioned protection for your wind turbine's critical component. DELTAsafe®'s lightweight casing will help you avoid damage to the wind turbines, whilst it is strong enough to provide maximum protection for a critical component during transportation.



DELTAsafe®'s smart features will help your O&M team improve their overall operational efficiency, and reduce manual handling by 90%.

- Built-in, and strategically placed, handles and runners mean just four technicians can easily and safely manoeuvre the components around the wind farm site.
- A unique crane hooking access point means the wind farm technicians can lift the module directly, as per manufactures' guidance, while protecting the module during the lifting operations, offshore & onshore in all weather conditions.



DELTAsafe® is a reusable and sustainable inverter protective system that will help your business reduce costs and save time.

- Multiple built-in document pockets mean you can identify components whichever way they are stacked.
- DELTAsafe® is fully tested and approved for use in all weather conditions.

## SPECIFIC USES

- Transporting GE Energy delta modules.
- Lifting delta modules to the top and base of the wind turbines, as well as around the towers.
- Moving delta modules around the site, towers, vessels and dockside.

## FLEXIBLE & LOGICAL LOGISTICS

We offer a flexible rollout solution for our customers.

- 360° transportation cycle from inverter factory to site and back to the factory.
- 180° transportation cycle from site to site storage to the wind turbines and back to site.



The DELTAsafe®'s smart features, designed in collaboration with our customers, are fully tested and manufactured in the UK.

## KEY FEATURES FOCUS

- Soft case & unique cushioned system
- Strategically placed handles for ease of lifting
- Unique crane access hooking point
- Runners on two faces
- Weatherproof



**Quality product designed & manufactured in Great Britain**



**Water-repellant - tested for use in all weather conditions**



## TESTING AND STANDARDS TABLE

The DELTAsafe® specification and design have been manufactured to meet and exceed the standards set out below. Our DELTAsafe® system is fully compliant with the British and International Standards as follows:

- BS EN ISO 2234:2002 ISO 2234:2000 Packaging. Complete, filled transport packages and unit loads. Stacking tests using a static load
- BS EN ISO 2244:2002 ISO 2244:2000 Packaging. Complete, filled transport packages and unit loads. Horizontal impact tests
- BS EN ISO 2247:2002 ISO 2247:2000 Packaging. Complete, filled transport packages and unit loads. Vibration tests at fixed low frequency
- BS EN 22248:1993 ISO 2248:1985 Complete, filled transport packages. Method for determination of resistance to vertical impact by dropping
- BS EN 50178:1998 (IEC 62103:2003) Electronic equipment for use in power Installations. General requirements
- BS EN 60068-2-6:2008 IEC 60068-2-6:2007 Environmental testing. Tests. TestFc. Vibration (sinusoidal)
- BS EN 60068-2-14:2000 IEC 60068-2-14:1984 Environmental testing. Test methods. Test N. Change of temperature range
- BS EN 60146-1-1:1993 IEC 60146-1-1:1991 Semiconductor convertors. General requirements and line commutated convertors - Part 1-1: Specifications of basic requirements
- BS EN 60721-3-1:1997 IEC 60721-3-1:1997 Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities –Section 1:Storage
- BS EN 60721-3-2:1997 IEC 60721-3-2:1997 Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities – Section 2: Transportation
- BS 543: 2004 Severe contract use Performance Grade A
- ISO 4920 Water repellent
- IEC 61800 temperature, humidity, vibration and drop tests

## CONTACT US

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