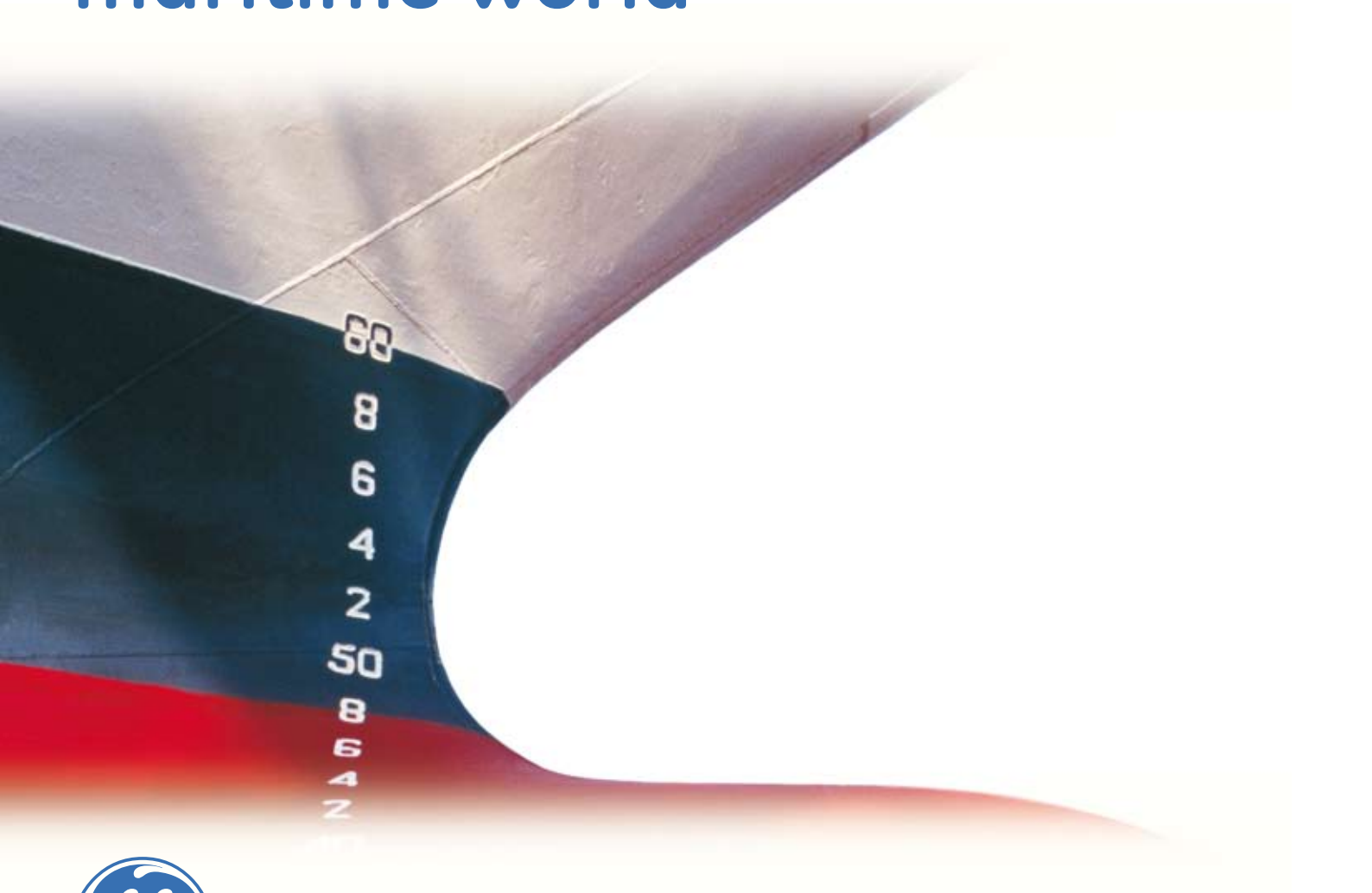


Power quality solutions for a technology-dependent **maritime world**



Power quality solutions for a technology-dependent maritime world

The maritime industry is growing. The fast technical development has increased the usage of electronic equipment onboard. The ship building industry offers a variety of different products: oil/gas tankers, cruise ships and yachts, ferries and fishing fleets, offshore and maritime defence equipment.

Expensive maritime equipment must be used efficiently. Even a short system crash can lead to substantial costs and cause lengthy organizational problems. Additional consequences include loss of engine control or communication and navigation systems potentially leading to severely dangerous situations.

Most technical outages in the maritime environment are caused by insufficient quality in the power supply mainly because of old generators. As well as the directly visible impacts above, a poor utility power supply causes premature aging of electronic devices leading to higher maintenance costs.

reliable power supply = reliable maritime business



**NetPro® UPS
DNV certified
600-1500 VA**

As one of only a few suppliers worldwide GE has a type approval certificate from the **Det Norske Veritas (DNV)** certification body for one of its UPS models. The certified model was not specifically redesigned for the maritime environment; the *standard* UPS passed the severe tests equipped with a maritime mounting kit!

The certification proves the NetPro's high quality and its suitability for the rough environmental and EMC conditions onboard. This simplifies installation and documentation requirements significantly.

The DNV certification also stands for the following agencies (as per the International Association of Classification Societies - IACS - standards):

- American Bureau of Shipping (ABS)
- Bureau Veritas (BV - Holland)
- Det Norske Veritas (DNV - Norway)
- Germanischer Lloyd (GL - Germany)
- Lloyd's Register (LR - UK)
- Nippon Kaiji Kyokai (NK - Japan)
- Registro Italiano Navale (RINA - Italy)



NetPro maritime kit



**Secure your bridge applications and IT -
NetPro Series UPS
600-4000 VA**

Bridge applications, local PCs and communication systems as well as fishery products – all these mission critical applications can be protected with a UPS from the NetPro range. This plug-in-UPS helps you to protect your equipment cost efficiently.

NetPro UPS have - like all other GE UPS - comprehensive monitoring tools, which provide efficient event management and maintenance even in a decentralised structure with a multitude of equipment.

features and benefits

- VFI (Voltage and Frequency Independent) technology eliminates power reliability problems
- LCD screen information panel with status and alarm settings (2000-4000 VA)
- Optimised for use with generators
- Programmable switch-off for less critical loads to maximise up-time of critical devices
- Programmable to start only when sufficient run-time (autonomy) is available
- Rackmountable 19" models are available ranging from 600-3000 VA, allowing efficient use of available floor space
- Optional maritime kit to further strengthen the UPS in harsh maritime environments with high vibrations and poor mains quality.



Maximise the efficiency of your communication and navigation systems - LP Series UPS 3-30 kVA

GE's LP Series of single and 3-phase UPS is the ideal UPS support for communication and navigation instruments. In the United States the LP-11 Series is classified with the designation LPS Cat III (Instrument Grade Laboratory Protection System), meaning it is designed to efficiently protect critical equipment and processes.

Excellent quality of supply voltage, galvanic separation and flexible autonomy times are key characteristics to successfully support communication and navigation systems. Furthermore LP-11 UPS are successfully used to protect maritime training systems and process automation.

features and benefits

- VFI (Voltage and Frequency Independent) technology eliminates power reliability problems
- Low input current distortion and high input power factor eliminates the need for costly filters or oversized generator
- Small footprint
- Advanced technology enabling silent operation
- High output power factor allows for optimal sizing of UPS
- Low output voltage distortion
- Superior Battery Management (SBM) to enhance battery life and to prevent battery failure
- ECO mode enables automatic energy savings under stable power conditions



The ideal UPS for your centralized solutions - LP 33 40-120, SitePro® and SG® Series UPS 10-500 kVA

Steering systems, engine and gear-systems control, cranes.... all complex and mission critical systems. Due to its specific requirement related to power supply, such equipment has high demand for a clean and safely managed supply of input power.

GE's LP 33/SitePro/SG range of UPS successfully tested for use with maritime electronic equipment. GE's exclusive power control system means smaller rated UPS systems can be used, still ensuring a perfect waveform to the load even on peak loads. Thus GE helps you provide excellent customer service and process management by ensuring business continuation, resulting in improved business efficiency.

features and benefits

- VFI (Voltage and Frequency Independent) technology eliminates power reliability problems
- High output power factor eliminates need for UPS oversizing
- Constant high efficiency at full and partial load
- Superior Battery Management (SBM)
- Super ECO Mode for energy savings
- Extremely low output distortion even at non-linear loads
- Highest levels of reliability and flexibility with Redundant Parallel Architecture (RPA)
- Best in class for variable load applications
- Various operation modes: double conversion; voltage and frequency stabilizer; frequency converter
- Galvanic isolation which provides additional critical power protection
- Backfeed protection standard included providing a safe work environment

Safe and managed electric power - more important than ever before

- ship operation equipment
- navigation equipment
- telecommunication
- safety facilities
- cargo handling systems
- computer networks
- entertainment facilities
- electronic point of sale equipment
- security systems
- emergency systems
- specialized machinery
- ...

... for all possible situations arising on board of a modern vessel, the uninterrupted availability of high quality electricity has become vital for a safe and profitable journey.



UPS Technology for the maritime world

GE is a leader in the field of critical power protection. It's UPS business designs, manufactures and delivers premium power quality products and related software solutions. These products ensure that organizations all over the world enjoy a safe and managed power supply.

To learn more about what we can do to protect your maritime equipment against the consequences of power failures, visit our website www.gedigitalenergy.com or use the reply fax.



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I am interested in more information about UPS equipment, please send me relevant documentation.

Name / first name: _____

Street: _____

I am interested in a "custom made" UPS-solution, please contact me.

Postal code / City: _____

Country: _____

No thanks, at the moment I'm not interested, but please keep me informed about future developments.

Telephone: _____

E-mail: _____

System to be protected: _____

