

MARITIME POWER PRODUCTS

“ In times of conflict or peace, *the Royal Navy* is key to the prosperity of *Britain* and the stability of the high seas. ”

Naval Power Trays to convert 115v to 230V supply whilst providing input and output isolation (phase to phase).

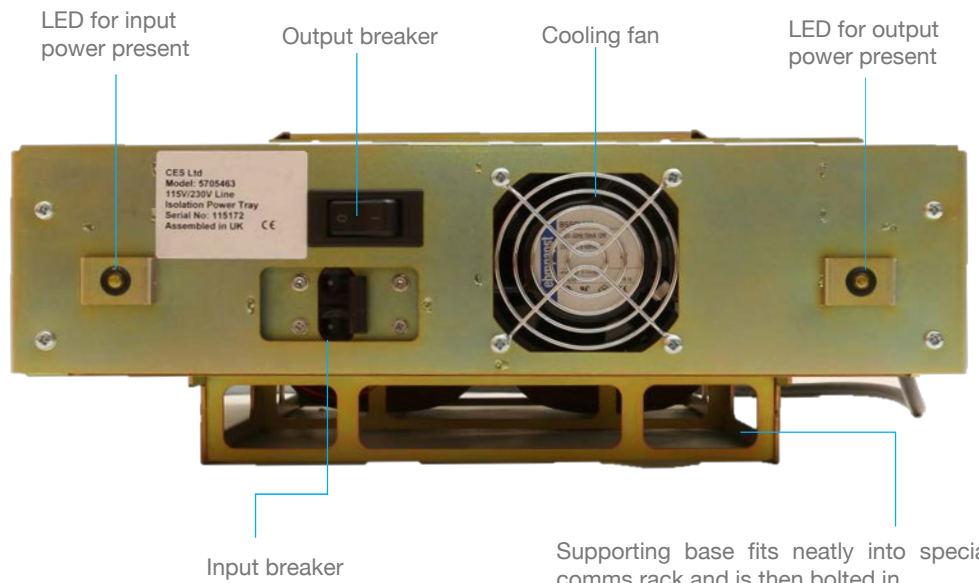
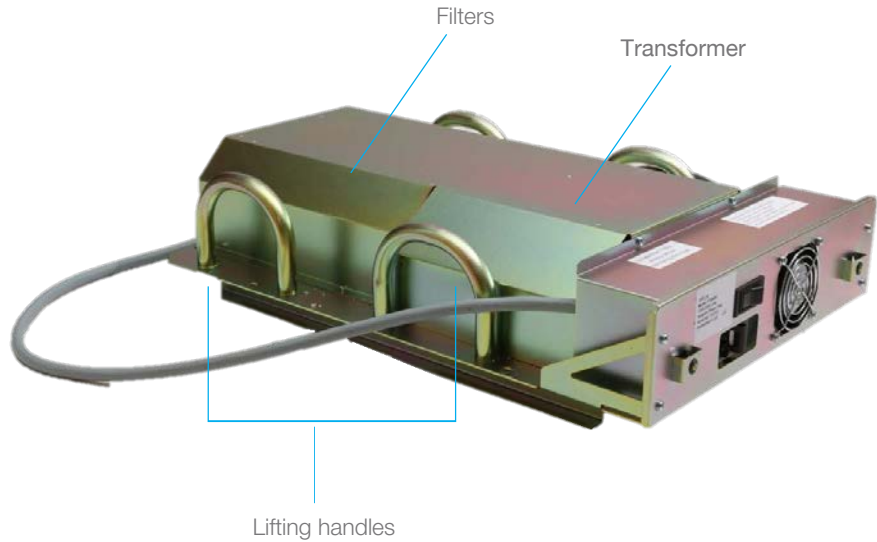
The Power Tray, PT2-N series is a bespoke item specifically designed for warships and naval fleets. It offers a practical rugged solution to the power supplied to the equipment contained in the comms racks. Warning LED's, a circuit breaker and integrated filters ensure the onboard AC power source is Defstan compliant.

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- Rack mounted
- 5 KVA with optional 115v and 230 v units.
- LED's on front panel warn of power present on input and output.
- Integral lifting handles to enable 2-man lift.

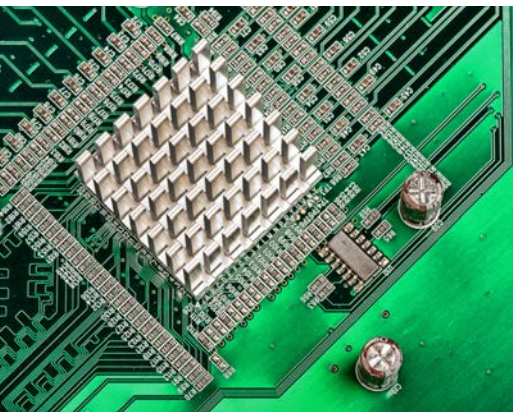
Key features

- Ensures onboard AC power source is **Defstan compliant**.
- **Rack mounted**, integral base plate allows easy fitment into the base of the adapted comms rack.
- 5 KVA with optional 115v and 230 v units.
- Isolation transformer (phase to phase) making it intrinsically **safe**.
- Isolation eliminated earth leakage.
- Input breakers to instantly cut power.
- **LED warnings** for power present on both input and output.
- Cooling fan to dissipate **heat**.
- Rugged design ensures a long life.
- Long history of reliability.
- Currently installed on the Royal Naval fleet.
- Integral lifting handles to enable 2-man lift for easy movement into awkward places.
- Front panel access to all controls.



Front panel





Services

Installation - multi-disciplined installation engineers experienced in the marine environment are available to install the systems. Engineers have the appropriate security clearance to work in many dockyards or land based installations. Both new installations or vessel upgrades can be carried out around the world on request.

Global support - around the world ensures support is always close at hand.

Warranty - long standard warranty with optional policies available to give extended warranty life plan – gives peace of mind.

Extended spares programme - ensures guaranteed availability of spares and whole machines for an agreed period. Gives customers security in the knowledge that products can be operational for given time frames up to 10 years.

Training - for engineers or crew at customers premises or our offices.

Research and development - dedicated team to design, test and develop the next generation of systems whilst improving reliability and quality at every step.

Extended life support - enables deployment of systems over many years can be easily managed ensuring identical systems are installed helping keep costs of change to zero.

Trade in and recycling program* - a 'Whole of Life Plan' for life ownership enables a collection service to take products away from agreed locations in return for funding for new equipment. Full recycling of parts means environmental security from start to finish using the 'Circle 21' Plan

Purchase options** - Rent or Lease options available to spread capital expenditure cost and can include additional.

Repair programme *** - aims to extend product life with many product variants being able to be repaired. Upgrades can also be reviewed.

* equipment as supplied by Primary Networks

** not available all products

*** revalidation and testing may be required for certain repairs. Where different components are used then additional re-testing may be needed and this maybe uneconomic for small quantities. Contact the manufacturer to discuss.





Applications

- Maritime power systems / management.
- Naval power requiring DefStan compliant power source.
- Submarines
- Rack based Naval IT equipment.

Testing / Environmental

We have considerable experience in building and adapting computer equipment to meet tests to include:

- Tempest NATO SDIP 27, level B
- DefStan
- Land Class A
- Below Decks
- MIL-STD 810G

Individual test certificates available for specific categories of test when requested.



Design Service

- Our Naval Maritime power products are designed specifically for the Royal Navy but similar solutions can be designed and built for other naval fleet applications. Our expertise in EMC filtered solutions with shock and vibration testing enables us to apply this technology to a wide range of similar applications.
- Our expertise and custom design service enables a customer to have the exact machine built to suit their application. We recognise that sometimes a system needs to be built around a pre-existing piece of kit ie, unusual size, shape, mountings etc, and our design team will work hard to find a solution which can meet these criteria.
- A full service includes a brief and initial prototype through to full manufacturing, test and delivery. This can include all aspects of specific testing such as Tempest or MIL-STD etc where our specialised knowledge ensures we deliver a machine fully certified to the customer specification.
- The finished designs, once fabricated, can then be warehoused and deployed as needed and our installation team are fully experienced in fitting and installation.



Contact

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Agents, Partners and Distributors

As part of our continued expansion programme we would be interested in speaking to Sales Agents, Partners and System Integrators in key countries around the world who can help us achieve our aims.

Services

- Design consultants
- Concept → design → prototype
- Manufacture, test and certification
- Shock, vibration and defence standard EMC, test and certification
- Training
- Projects - prime or sub-contractor
- Worldwide coverage

Products

- **Louvar ZX3 Series** - ruggedized, Naval certified PC's / computers
- **i-Louvar Mini Series** - ultra compact, thin client, Naval certified PC's / computers
- **Naval Ships Power Systems** - power trays and rack mounted comms trays to provide dual outputs with optimised EMC filters
- **Industrial Panel PC's** - ruggedized, certified and marinised:
 - Wide screen series, fanless, Intel quad core processor
 - Ultra slim series, fanless, Intel Atom processor
 - Heavy Duty Series, fanless, Intel Celeron processor
- **Ruggedised tablets and hand held devices**

A long established, professional company serving the defence sector:

- ISO 9001 quality management approved
- Investors in People certified
- ADS Group Member

We are proud to work with and supply:



Royal Netherlands Navy

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