

Providing Regulatory Compliance Expertise. An Advisory Service that helps.

Product Compliance

For over 30 years CE marking and product compliance has been important to global manufacturers and designers of electrical and electronic products. CE marking and product approvals is not a simple matter and involves multiple design disciplines and standards.

This includes EMC, Safety and Environmental testing. Each industry sector can have a directive and set of standards dedicated to it. Our comprehensive services are designed to help you meet these requirements efficiently and effectively. We have over 30 years' worth of Electronics design and test experience.

We can provide EMC, Safety and Environmental design, and Test experience and project design and implementation for all your CE compliance needs.

A typical test program can involve, EMC testing and Electrical safety approvals for the simplest electronic product. This involves safety testing and multiple EMC tests. Radiated emissions, Conducted emissions, Radiated immunity, conducted immunity, ESD, EFTB, and Surge. failing anyone of these tests mean repeating them all

Our Expertise extends to helping you design your PCB/PCA layouts for EMC and Electrical Safety. Mechanical chassis and cable layout design to allow you to meet environmental, EMC and Safety requirements. Test plans and test program design for all testing requirements. We can also support testing and perform R&D in case your product does not meet the requirements. We can fix issues and ensure the third-party test partner performs the testing fairly and transparently

Complying with product approval regulations is not confined the EU, Alto Star Ltd can also make sure you comply with any international standard and obtain the correct certification you need to place your product on the market.



Product Design

A key part of any product approvals starts with the product design. Designing for EMC or electrical safety is a specialist skill and takes years to master. Without including specialist design of your PCB and Enclosures you will only have a 50% chance of complying with the Tests applied to the unit. By correctly applying design measures to the unit you can save money on product costs and test cost by complying first time.

Compliance Planning

To comply with any standard, you need to plan from conception of the product. If you leave compliance to when you need to test the product, this will cause delay through test failures and redesigns. A fully worked out compliance plan should include a test plan, design specification and all the countries the product will be sold in.

Product Testing

No matter how perfect you design or test planning, products can still have issues during the testing phase of a project. Understanding the tests and how they are applied can help you make minor design changes during the testing. Testing the product in the correct order to avoid repeating tests is vital to speed and cost of product testing.

Documentation and Certification

Product compliance does not end with the testing, but its ongoing with documentation such as the declaration of conformity, and compliance packs for clients and authorities. Some countries require you to submit a large amount of data for certification. Product changes need managing and with the right documentation, assessments can be performed to minimise repeat testing.

Product Services



Compliance program planning

Implement an entire product compliance program



Product EMC design

Work with your design team on, PCB, cable, software, and mechanical design.



Product Safety Design

Work with your design team on, PCB, cable, software, and mechanical design.



Environmental design

Work with your design team on, PCB, cable, software, and mechanical design.



Test plans

Create test programs and ensure the testing is performed in the correct order



Product change projects

As components change, we can help you assess repeat testing or conduct a change impact assessment



Documentation and Certification

We can complete, Declarations of conformity and complete documentation for any certification required



Test support

We are happy to support your tests at the laboratory of choice

Product compliance Program creation and implementation (From £6000)*

Product compliance Policies and processes	✓
Compliance functional Specifications for EMC, Safety & Environmental approvals	✓
Change management programs implemented and operated	✓

Product design and development for Compliance (from £4500)*

PCB Design for EMC and Electrical Safety	✓
Mechanical and chassis design for EMC and safety	✓
R&D testing to fix issues and failures	✓

Product testing and support (from £1000 per day onsite)*

Testing support at third party labs	✓
Fix management in case of issue during testing	✓

Compliance documentation and Certification (from £4500)*

Component checking for Safety approvals (UL recognised, Etc)	✓
Sanctions and Export control checks for products and components	✓
DOC and other documentation to place on the market	✓
Certification application and completion	✓
Test plans for Safety, EMC & Environmental testing	✓

Continuous product compliance support (from £10,000 per annum)*

Regulatory watch and support	✓
change request compliance assessments and testing	✓
Product compliance Training (design, test and process)	✓

Why Work With Alto Star Ltd

Why work with us for your compliance needs. We have over 30 years of experience in delivering for product manufactures. we can help you design and test robust products and by involving us early in the project, we can save you money as well.

Typical products take multiple rounds of EMC and Safety testing to comply with global standards. each time you have to modify your unit to comply you will need to retest. The costs of this can quickly mount, not only in cash terms but also in time. Using professional product compliance advisors can quickly reduce the number of test cycles.

As the cycles are reduced it also saves product design changes which can become expensive if PCB layouts or chassis designs need adjusting. Even if designs do not need changing, product failures may require additional components to comply like ferrites and shielded cables. by implementing a compliance design and test program this can be avoided reducing the cost per unit saving more money.

Product compliance and product compliance certification can act as a marketing tool, and your products will be trusted in environments and markets you may not have been able to sell into before.

With the recent implementation of the EU AI act and the requirements of certain product types to apply CE mark for AI. Alto Star has the expertise to manage this for you as well.

Contact us today

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