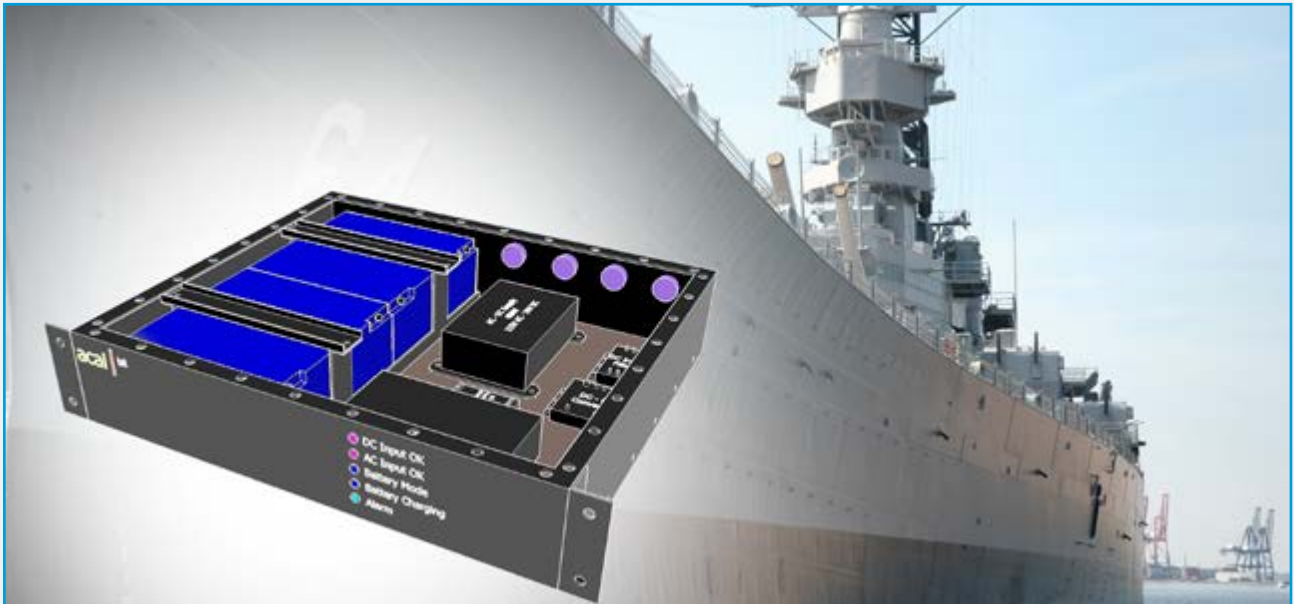


## Fully sealed marine UPS system



### Challenge – Designing a small-form factor UPS suitable for marine environments

While discussing an embedded computing project with one of our customers, a naval systems integrator, they mentioned they needed to power the system for up to one hour during power outages and they could not find a COTS solution to meet their needs. The customer was looking for a solution that would fit into a 19-inch rack system, with as small a height as possible, and to also be fully sealed to protect against humidity and water ingress.

### Acal BFi solution

We developed a reliable UPS system using LiFePO4 Ion batteries in a form-factor that was around 33% more compact than was originally thought possible and capable of supporting the system for the required minimum of one hour. The unit was also designed for compliance to relevant marine specifications.

### Services provided

- System specification
- Standards certification
- User documentation
- System design, manufacture and test
- 3D CAD drawings and mechanical modelling