Declaration of Conformity

The Declaration of Conformity is issued under the sole responsibility of the manufacturer

Issuer :	Smart Boat Ltd 9 Heenan Close Frimley Green Surrey GU16 6NQ United Kingdom	**Photograph** 
Product	Smart Wiring Busbar BB-120-250-x-y BB-200-150-x-y BB-120-150-x-y BB-200-250-x-y (x= fitting type) (y=colour)	These are passive units which are used for either low voltage power distribution or act as a common 'rail' for joining circuits together – a common 'ground bar' for example. They are rated at either 150A or 250A. There are numerous sizes and variations of the tinned copper busbar.

We declare that the products described above, to which the declaration of conformity refers to, is in conformity with the essential requirements of the following legislation:

- RoHS Directive (2011/65/EU)

Through the technical standards/specifications specified below:

- EN IEC 63000:2018
- IEC 62321 Series
- EN 62474

Signed for and on behalf of

Company Name	:	Smart Boat Ltd
Place of issue	:	Address as above
Date of issue	:	18th June 2024
Name & title	:	Robin Saunders. General Manager
Signature	:	

Technical Documentation

Product	Smart Wiring Busbar
General Description	These are passive units which are used for either low voltage power distribution or act as a common 'rail' for joining circuits together – a common 'ground bar' for example. They are rated at either 150A or 250A. There are numerous sizes and variations of the tinned copper busbar.
Conceptual Design	To design & build a module that simplifies and professionalise low voltage wiring configurations. This should follow the overall design philosophy of the Smart Boat Eco system and ensure that as many as possible of the components are reuseable throughout the Smart Boat range.
Where Designed	Yew Tree Cottage, Hornblotten, Shepton Mallet, Somerset, BA4 6SF
Where Manufactured	**Assembled At :** - Yew Tree Cottage, Hornblotten, Shepton Mallet, Somerset, BA4 6SF **Components Manufactured By :** - Smart Boat Ltd & other 3D Printing Suppliers using standard PLA/ABS. - Various UK & Chinese companies
Evidence of Compliance	Passive device – therefore EMC conformity not required <50volts – therefore Low Voltage conformity not required Material used exclude restricted items – therefore conformity with RoHS 2011/65/EU achieved.
Supplier Compliance	RoHS certificate available for PLA & ABS filament (Sunlu or Geeetech) and PCB (UK Electronics) available on request Certificate of Composition for the copper bar available of request.
Technical Standards	EN IEC 63000:2018 IEC 62321 Series EN 62474
Notified Body	None – Self Assessed
Risk Assessment	See Risk Assessment RS24002
Instructions for Use	Installation Instructions available on request.
List of Parts	Busbar 50/120/200 Base Busbar Copper Bar 120/200 Screw/Bolt Din Lock Tabs Hex Spacers Various Stainless Steel (A2) Fixings
Bill of materials	Full BoM available on request

Risk Assessment Summary

Risk Assessment : RS24002

Product	Busbars
Product Description	These are passive units which are used for either low voltage power distribution or act as a common 'rail' for joining circuits together – a common 'ground bar' for example. They are rated at either 150A or 250A. There are numerous sizes and variations of the tinned copper busbar.
Product design and manufacturing processes.	- Designed by Smart Boat Ltd staff in-house - Base Din Rail clips 3D printed in house & other 3D Printing Suppliers using standard PLA/ABS - Fixings, Fork Bars and Copper Bar bought in - Final product assembled in-house
Bills of materials and components lists.	- See Technical Documentation
Supplier declarations and material composition data.	- See Technical Documentation
Test reports and certificates of compliance for hazardous substances.	- Not applicable – Self declaration
Risk Analysis and Mitigation:	
Complexity of the supply chain	- Smart Boat Ltd has established that there are many wholesalers that can provide the same manufacturer's raw materials and other components.
Historical compliance performance of suppliers.	- We have insufficient knowledge about the company's suppliers as we are in the early stages of production – this needs to be monitored over the coming months.
Potential mitigation measures:	
Substituting non-compliant materials with RoHS-compliant alternatives.	- N/A. All materials are compliant.
Enhancing supplier quality controls and monitoring.	- This is out of our sphere of influence given the size of our business. - Discussions with our suppliers indicate that they have excellent working practices in line with industry norms. - The alternative is to make sure that we continue to seek and work with reputable suppliers.
Regularly updating and reviewing technical documentation.	- Risk assessment to be revisited whenever there is a relevant change to the product or every 12 months.

Date Assessment undertaken : 18th June, 2024

Assessment undertaken by : Robin Saunders