

## Meeting Maritime Requirements

ABS is one of the 10 members of the International Association of Classification Societies (IACS). IACS plays a big role in maritime regulation and safety.

The members of IACS are

- ABS American Bureau of Shipping
- BV Bureau Veritas
- CCS China Classification Society
- DNV Det Norske Veritas
- GL Germanischer Lloyd
- KR Korean Register of Shipping
- LR Lloyd's Register
- NK Nippon Kaiji Kyokai (ClassNK)
- RINA Registro Italiano Navale
- RS Russian Maritime Register of Shipping

After reviewing the maritime specifications of ABS, DNV and Lloyds, Sixnet has determined that they have the same test requirements for maritime type approval. We decided to pursue ABS Type Approval certification since they are based in the United States. The tests were performed by local A2LA accredited labs.

### ABS, DNV and Lloyds Test Requirements

<u>DESCRIPTION</u>	<u>IEC STANDARD</u>
Power Supply Variations a) Electric	IEC 60092-504
Power Supply Failure	IEC 60092-504
Dry Heat (Class D: 70C)	IEC 60068-2-2 Tests Bb and Bd
Damp Heat (Humidity-Cyclic)	IEC 60068-2-30, Test Db
Cold - Low Temp. (Class D: -25C)	IEC 60068-2-1 Tests Ab and Ad
Vibration	IEC 60068-2-6, Test Fc
Insulation Resistance	IEC 60092-504
High Voltage (1500V for 1 minute)	IEC 60092-504
Radiated RF Fields (Electromagnetic field)	IEC 61000-4-3
Burst/Fast Transients (Fast/Low Energy)	IEC 61000-4-4
Surges (Slow High Energy Transients)	IEC 61000-4-5
Conducted Radio (High) Frequency	IEC 61000-4-6
Conducted Low Frequency	EN 60945
Radiated Emissions	IEC 60533, EN 50081-2
ESD (6kV contact, 8kV air)	IEC 61000-4-2
Conducted Emissions	IEC 60533, EN 50081-2

To view Sixnet's current list of ABS Type Approved products, please visit the ABS website: [www.eagle.org](http://www.eagle.org). Select "**Services**" from the menu bar and select "**Type Approval**" from the drop down menu. Then select "**Introduction**". Select "**Product Search**" and enter Sixnet as the Company.