

## Andorra battery safety

You will need to consider what to pack, to ensure you can use your personal electrical appliances safely whilst abroad. This normally includes the use of a travel adaptor, which is a device that simply allows you to plug any UK electrical appliance into a foreign electrical socket. It is important to note that it does not convert the voltage or frequency.

As voltage can differ from country to country, you may need to use a voltage converter or transformer whilst in Andorra. If the frequency is different, the normal operation of an electrical appliance may also be affected. For example, a 50Hz clock may run faster on a 60Hz electricity supply. Most voltage converters and transformers come supplied with plug adaptors, so you may not need to buy a separate travel adaptor.

A dual voltage rated appliance will display for example "INPUT: 110-240V" on the body of the appliance or its power supply. This means that you will not need a converter or transformer but just a travel adaptor, because Andorra operates on a 230V supply voltage, which is within the 110-240V range that the dual voltage appliance operates on.

In Andorra the supply voltage is 230V. If the appliance is a single voltage rated appliance, it will need to operate at the same voltage as the supply voltage of the country i.e. 230V. If this is not the case it should be used alongside a voltage transformer or converter to allow the appliance to work safely and properly.

Converters and transformers perform a similar function, but their applications differ. Converters are typically used with appliances that operate for a short duration (1-2hours), whilst most transformers can be used alongside appliances that operate continuously.

It's important to understand that some travel adaptors are not suitable for any appliances that require an earth connection. These types of travel adaptors should only be used with double insulated equipment, which will be clearly marked with the symbol shown below.

AYK, established by marine battery pioneer and electrical engineer Chris Kruger in 2018, is seeing a surge in demand since opening a new state-of-the-art automated manufacturing plant in Zhuhai, China, in July last year. The 5,000m<sup>2</sup> factory ramps up AYK's production capacity to 300MWH a year with ability to expand to 1GWH. Its opening was seen as a significant moment in the evolution of the marine battery industry and saw speeches from Wartsil, Fjord Maritime Norway, Vulkan Group, Green Energies E-Ship and the Maritime Battery Forum.

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