



Application Bulletin

Date: 16-March-05

Re: Application Note
OCS Using Battery Power

To: Worldwide
Distribution

Application Note Operating the OCS using Battery Power

Overview

You may operate an OCS on battery power by using the wide input power range of the OCS product line. The range on most models is from 9 to 30 VDC. This allows both mobile and remote operation and is very easy to set up and maintain.



Why use the OCS on Battery Power?

Power lines are not always available.
Mobile operation, such as in a vehicle, is desired.

Setting up the Hardware

The actual battery voltage is not significant as long as it is within the input range of 9 to 30 VDC. However operation close to 24 VDC gives wider margin. Check the power input requirements for the specific OCS model to determine battery size. (Note: If a DC/DC Converter is used as discussed below, use its input power requirements to determine battery size.)

Operating considerations

OCS models may experience memory/program loss when powered by a battery that was allowed to slowly drain to a very low voltage level. Therefore, we recommend the use of a DC/DC Converter for these applications. A DC/DC Converter will maintain a constant voltage when using a battery for power. The Astrodyne Model SD25A-24* will convert 12 VDC input to 24 VDC output at up to 1.1A and will cut off the power if the incoming voltage drops below 9 VDC. This will provide clean power for the OCS, preventing memory/program loss.

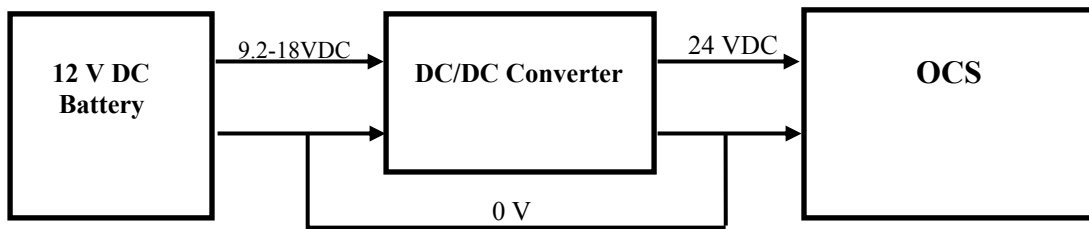


Figure 1: Typical connection of DC/DC Converter

*Note: Horner is not only recommending the Astrodyne DC/DC converter, but merely stating that the above model has been tried and it performs as desired.

Horner APG revised this document on March 15, 2005. Questions or comments can be given to the Technical Support Department by phone at 317-916-4274 or email techspt@heapg.com.

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