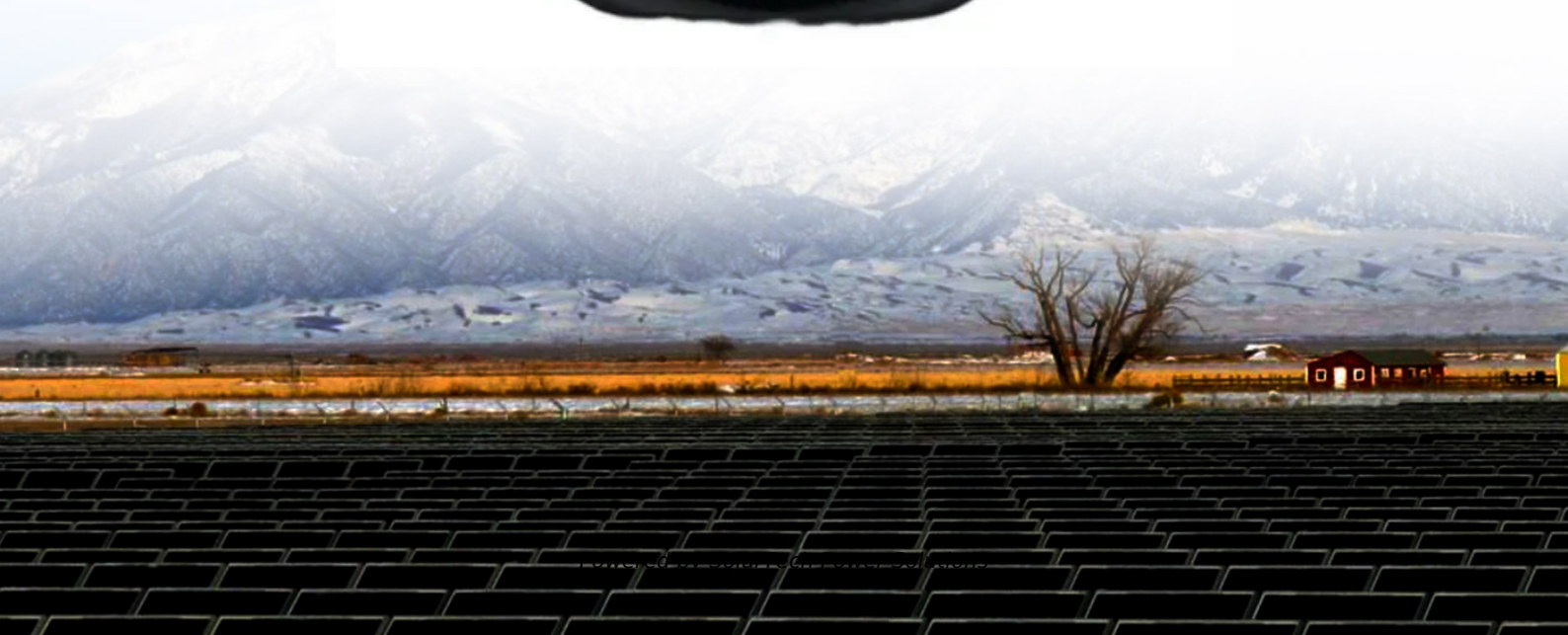


**SolarTech Power Solutions**

# **Antarctica Communication Base Station Inverter**



## Overview

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How did communications work in Antarctica?

Communications were sent via a relay station at sub-Antarctic Macquarie Island. For the first time, expeditioners could receive regular news and send messages back home. Satellite technology revolutionised communication in the Antarctic in the 1980s. Today, expeditioners have regular telephone and email access.

When was radio first used in Antarctica?

In 1912, Australia pioneered the first radio communications in Antarctica at the Commonwealth Bay base. Communications were sent via a relay station at sub-Antarctic Macquarie Island. For the first time, expeditioners could receive regular news and send messages back home.

How do Australian Antarctic stations work?

Australian Antarctic Stations operate a range of radio equipment for communicating with ships, aircraft, field camps and station personnel using the HF and VHF bands. The fibre optic network at a station is used to connect the radio base stations to the central operating positions.

How does Australia provide telecommunications to Antarctica?

The provision of telecommunications to Antarctica relies on satellite transmission for backhaul. Telecommunications has always been a part of Australia?

s operations in Antarctica. The Australasian Antarctic Expedition from 1911 to 1914 led by Douglas Mawson, set up a transmitter at Commonwealth Bay, and a relay station on Macquarie Island.

How did satellite technology change the Antarctic?

For the first time, expeditioners could receive regular news and send

messages back home. Satellite technology revolutionised communication in the Antarctic in the 1980s. Today, expeditioners have regular telephone and email access. The Australian Antarctic Division can now host video links between stations and across Australia.

Why do Australian Antarctic stations have a phone system?

The associated voice capability, and the ability to geo-locate a phone, provide an additional level of safety on the Antarctic Stations. Australian Antarctic Stations operate a range of radio equipment for communicating with ships, aircraft, field camps and station personnel using the HF and VHF bands.

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