



# **Solar Power Solution**

## Overview

GeoSIG's solar power solutions provide reliable and independent power supply for remote locations. And we can offer customised solutions to meet customer needs.

The size of the solar panel depends on the power requirements of the installed GeoSIG components. In addition, we consider additional factors such as the geographical location, environmental conditions, your project design, and autonomy requirements. Based on the information, we calculate the optimum system capacity and designsuitable solar power solution for each site and system.

## **Key Features**

- Field-proven design
- High reliability and flexibility
- Solar power solutions that are suitable for harsh environmental conditions
- Secure housing for all environments



Typical solar power installation

#### **Typical Installation**

The solution is flexible in order to meet your needs. A typical solar power installation includes:

- solar panel and pole fixation kit,
- solar charge controller including
- overvoltage protection (OVP) and battery.

Our solar power solution is fully compliant with the complete range of GeoSIG instruments.



Typical solar power installation including lightning protection system

#### Optional

- field housing
- mast
- lightning protection system
- special accessories per request

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**DATA SHEET** 

## Solar Power Solution Components

#### Solar Panel

Power: Current: Voltage: Weight: Temperature range: Power warranty:

1000 V/m/s differential (2 x 500 V/m/s) 20 mm/s ( ± 10 mm/s) nominal output 15 - 22 V 7 - 10 kg -40 °C to +85 °C 20 years



Solar Panel Mast Kit Pole fixing set for solar modules Pole diameter: 7 - 10 cm

#### Solar Charge Controller

Includes separate OVP for solar power (all 35mm DIN mountable)Rated solar input:5 - 20 ARated load:5 - 20 ARegulation voltage:12 - 24 VMax panel voltage:30 V (in 12V system)Self-consumption:< 4 mA</td>Temperature range:-40 °C to +50 °C

**Battery** Maintenance free Capacity:

12 V / 24 - 100 A





Please note that solar components are frequently changed / improved by the manufacturers, therefore the context of this document is to provide an overview of typical characteristics. Depending on the particular system supplied the components may differ from the ones shown.

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