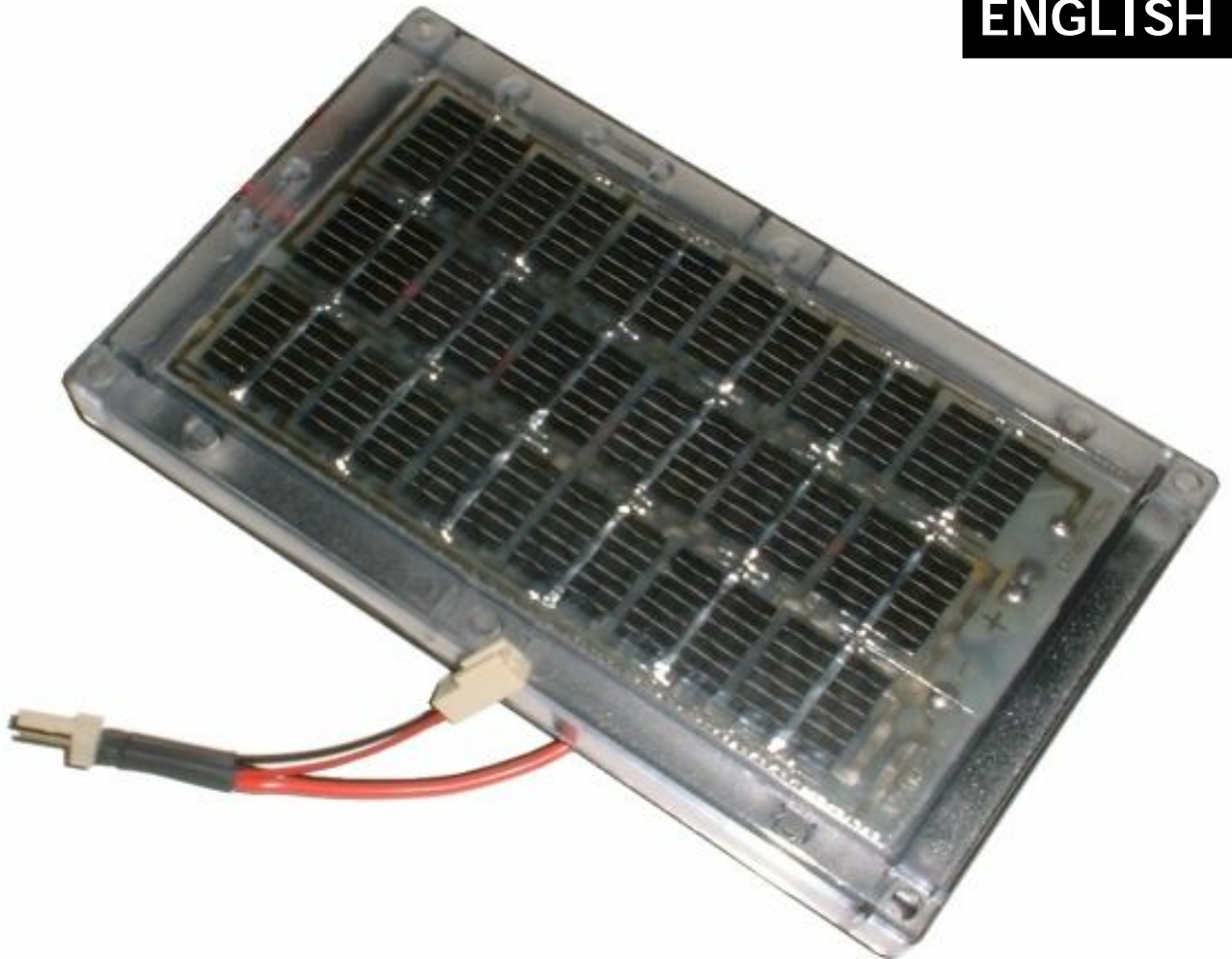


DS-SRM Solar Recharging Module

Installation Instructions

ENGLISH



Constant recharging method for Rugged Terrain Rovers

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Overview

The DS-SRM is a robust all weather solar panel designed to allow the Designer Systems range Rugged Terrain Rover 7.2V battery packs to be trickle charged during daylight or artificial light conditions. The panel is fully reverse current protected with an integral steering diode and will provide a maximum 50mA charge current in good light conditions. The panels 'Y' lead allows the 7.2V battery pack and controller board (ie. DS-X4C, OOPic-R) to be permanently connected.

Mechanical fixing

The DS-SRM may be mounted onto any flat surface, ie. DS-X4BK (expansion base kit), after drilling/punching mounting holes or at any angle with the supplied multi-angle mounting brackets.

Front surface through panel corner fixing holes are 4x 3.5mm diameter on a 140mm x 80mm pitch, bottom surface self-tapping screw fixings are 4x 3.0mm diameter on a 140mm x 59mm pitch.

Connection

The DS-SRM may be permanently connected to both the 7.2V rechargeable NiMH battery pack that is supplied with the Designer Systems Rovers and the microcontroller (ie. DS-X4C, OOPic-R) control board.

The integral 'Y' lead two (2) pin in-line header should be plugged onto the 7.2V battery pack and the two (2) pin socket plugged onto the microcontroller power input header.

Charging of the 7.2V battery pack may also be continued while the Rover is powered down by removing the power connection to the microcontroller board.

Specification

The DS-SRM design and specification are subject to change without notice.

Electrical

Output voltage	:	7.2V nominal (full sun)
Charge current	:	10mA nominal, 50mA maximum (full sun)
Protection	:	Reverse current protection diode
Charge time	:	40 hours from flat, full sun, controller un-connected

Environmental

Housing	:	Hi-grade UV proof polycarbonate
Resistant to	:	UV, Water (including salt) and corrosion
Size	:	150 x 90 x 18mm (cable 100mm)



WEEE Consumer Notice

This product is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on Waste of Electrical and Electronic Equipment (WEEE) and, in jurisdictions adopting that Directive, is marked as being put on the market after August 13, 2005, and should not be disposed of as unsorted municipal/public waste. Please utilise your local WEEE collection facilities in the disposition and otherwise observe all applicable requirements. For further information on the requirements regarding the disposition of this product in other languages please visit www.designersystems.co.uk



RoHS Compliance

This product complies with Directive 2002/95/EC of the European Parliament and the Council of the European Union on the Restriction of Hazardous Substances (RoHS) which prohibits the use of various heavy metals (lead, mercury, cadmium, and hexavalent chromium), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

Declaration of Conformity

Apparatus name / model number DS-SRM

Conformity via Generic Standard EN50081-1
Generic Standard EN50082-1

Conformity criteria For use only within commercial, residential and light industrial applications

We certify that the apparatus identified above conforms to the requirements of Council Directive 89/336/EEC & 73/23/EEC

Signed.  **Date** 1/6/02

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Description of apparatus Solar recharging module

Having made this declaration the CE mark is affixed to this product, its packaging, manual or warranty.

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