



xunzel™

applied Solar and Wind Energy™

PRODUCT NOTE

# SOLARTHIN™ Series

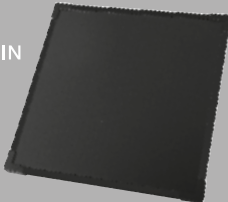
Photovoltaic solar panels for charging and maintenance of 12V batteries



Charge in all weather condition



SOLARTHIN 2.5W - 12V



SOLARTHIN 7W - 12V



SOLARTHIN 20W - 12V



Cable included (+) 3000mm + (-) 3000mm



SOLAR PANEL



SOLAR BATTERY\*

\*Not included

## SOLARTHIN™ Series – XUNZEL Photovoltaic solar panels for charging and maintenance of 12V batteries

### Product Overview

The SOLARTHIN™ Series - XUNZEL are amorphous silicon (a-Si) panels. They are made in the superstrate configuration using tempered glass, which is specially designed for solar applications. Using the latest silicon deposition technology, we can manufacture different sizes, for different powers and voltages. Serial connections are made with laser process, so no mechanical connections are required.

Our panels absorb a wide range of wavelengths, so they generate energy from the first sunlight in the morning until the latest sunlight in the afternoon, even on cloudy days. These panels are designed to charge and maintain 12V batteries like those used in cars, boats, caravans, motorcycles, snowmobiles, etc. or small 12V systems as electrification doors, security systems, etc.

Through the energy generated by the panels, the batteries are prevented from the typical self-discharge and are maintained themselves at the optimum charge for when we need to use them. Its capabilities and performance features make them the ideal choice in many occasions. Our amorphous solar panels operate very well in all weather conditions, even on cloudy days or under unavoidable shadows situations. This is especially very useful in not sunny locations or especially rainy climates.

These panels are maintenance-free and they are very easy to install. Armed with bypass diodes protection, are made of very strong materials and shockproof shatterproof glass.

### Available Models

SOLARTHIN 2.5W - 12V

SOLARTHIN 7W - 12V

SOLARTHIN 20W - 12V

**Included accessories:** connectors and clamps for 12VDC in order to instal and use the PV system easily.

### SOLARTHIN™ Features and Benefits

- **Easy** Very easy to use and install, with all kind of connectors included, such as, battery cable clamp, male and female CLA socket and extra cable. Light weighted. Maintenance free.
- **Reliable** They charge batteries in all weather conditions. They are weatherproof and shock resistant. Shatterproof tempered glass.
- **Electrical Connection** Junction box for protection against corrosion. Our modules are delivered with pre-assembled cables to enable quick and secure wiring without the need of special tools.
- The 20W model includes a solar charge controller, isKontroll.



Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



SOLAR



WIND



MARINE BOAT



CARAVAN CAMPING



UPS-BACKUP ENERGY



PROFESSIONAL



TELECOM CATV



AGRICULTURAL



WORKS



TRAFFIC



info@xunzel.com  
www.xunzel.com



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## SOLARTHIN™ Specifications



SOLARTHIN 2.5W - 12V



SOLARTHIN 7W - 12V



SOLARTHIN 20W - 12V

Model	Pmax	V	Vmp	Imp	Voc	Range of temperature	Connector	Weight	Dimensions [mm]	Cable length [mm]
SOLARTHIN 2.5W - 12V	2.5W	12V	15V	167mA	21.5V	-40°/+80°C	XUI	450gr	315 x 125 x 22	1800
SOLARTHIN 7W - 12V	7W	12V	15V	467mA	21.5V	-40°/+80°C	XUI	1.36kg	315 x 315 x 22	1800
SOLARTHIN 20W - 12V	20W	12V	15V	1330mA	21.5V	-40°/+80°C	XUI	8.0kg	325 x 940 x 22	2500

Included accessories

Male CLA socket

Female CLA socket

Battery clamps

LED tester

Basis to bend and hold



**BATTERY MAINTAINER  
BATTERY CHARGER**



L-2180427-JAH



Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



info@xunzel.com  
www.xunzel.com