

# UNI-SOLAR®

## UNI-SOLAR® FLEXIBLE MODULES

**Models:**

- \* USF-32
- \* USF-11
- \* USF-5



**Applications:**

- \* Marine Use
- \* Battery Maintenance
- \* Recreational Vehicles
- \* Camping
- \* Hiking

**UNI-SOLAR®** Flexible panels can be mounted on curved surfaces such as hatch covers, decks and vehicle roofs, or tied down on sail covers, dingies, and canvas awnings. For battery maintenance and to improve battery system reliability, the USF battery charger is flexible, reliable and cost-effective for many applications.

Each **UNI-SOLAR®** flexible solar battery charger uses United Solar's proprietary Triple Junction spectrum-splitting thin film amorphous silicon cell design to achieve high performance.

**Features:**

- \* Module Ratings -- 32, 11, 5 Watts
- \* Polymer Laminated
- \* Weather-Resistant
- \* Three-Year Limited Warranty
- \* Blocking Diodes for Battery Protection



**UNI-SOLAR®** Flexible Modules are ideal for a wide range of applications. For instance, the **UNI-SOLAR®** USF-32 is ideal for marine applications. With its 32 W output power rating, the USF-32 is a full power solar charger for cruising, extended travel and independent living. The flexible module can be permanently mounted to curved or flexible surfaces, or temporarily mounted on bimini tops or flying bridges.

The **UNI-SOLAR®** USF-32 is also ideal for recreational applications. Mounted on the awning of a mobile home, the USF-32 recharges the system's batteries during the day. The light-weight, flexible **UNI-SOLAR®** battery charging module is easily positioned for optimal solar exposure and optimal power.





## UNI-SOLAR® FLEXIBLE MODULES PRODUCT SPECIFICATIONS

	USF-5	USF-11	USF-32
Rated Power (W)	5 W	10.3 W	32 W
Operating Voltage (V)	16.5 V	16.5 V	16.5 V
Operating Current (A)	0.30 A	0.62 A	1.94 A
Open Circuit Voltage (V)	23.8 V	23.8 V	23.8 V
Open Circuit Voltage (V) @-10 deg. C and 1250 W/sq. m	27.1 V	27.1 V	27.1 V
Short Circuit Current (A)	0.37 A	0.78 A	2.40 A
Short Circuit Current (A) @ 75 deg. C and 1250 W/sq. m	0.49 A	1.02 A	3.10 A
Series Fuse Rating (A)	0.75A	1.5 A	4.0 A
Weight (lbs/kg)	1.18 lbs/ 0.54 kg	2.00lbs/ 0.91 kg	4.70lbs/ 2.14kg
Height (in)	21.80	21.80	56.27
Width (in)	9.71	16.70	16.70

Bekaert ECD Solar Systems LLC and United Solar Systems Corp



**UNI-SOLAR® FLEXIBLE MODULES  
LIMITED WARRANTY**

**Limited Warranty - Three Year  
For Products: USF-5, 11 and 32**

Bekaert ECD Solar Systems LLC warrants the module against lost power output as follows: For a period of three (3) years from the date of sale to the original purchaser, modules returned by the original purchaser to an authorized Bekaert ECD Solar Systems LLC Distributor of Service Facility which upon inspection are determined to exhibit a power output of less than 80% of the Rated Power specified at the time of sale due to defects in materials or workmanship will be repaired or replaced, or, at the option of Bekaert ECD Solar Systems LLC it will replace such lost power by providing the buyer additional modules to restore total wattage of all defective modules in the user's installation or system to 80% of the Rated Power output.

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