

# TECHNICAL BULLETIN

## SOLARWORLD AMERICAS MODULE TYPES

March 14, 2018 | Issue: 1027



### Module Typing of SolarWorld Modules

SolarWorld Americas has completed the spread of flame fire performance testing of our photovoltaic modules to classify them to the updated UL 1703 standards. When combined with Class A mounting systems our modules meet the photovoltaic fire system rating of Class A.

### Module Types

There are up to 15 different module types classified by UL. Types are defined by their construction characteristics such as glass thickness, EVA thickness, back sheet thickness and fire performance.

### Testing Criteria

For Class A testing (the most stringent) the module is positioned to simulate mounting to a ballasted system or sloped roof at 22-degrees and exposed to calibrated flame and wind from a standard distance. The flame is continuously applied to the bottom of the module for 10 minutes.

### Passing Criteria

In order to pass the spread of flame test:

- » No part of the module can be blown or fall off the deck in the form of flaming or glowing brands
- » No portion of the module or roof deck that forms part of the building can fall away in the form of glowing particles
- » The flame cannot spread laterally on the top surface or intermediate channel such as the space between the module and a roof
- » Flame may not spread beyond the specified distance:

TESTING CLASS	FLAME SPREAD DISTANCE (ft)	FLAME SPREAD DISTANCE (m)
Class A	6	1.82
Class B	8	2.4
Class C	13	3.9

### Results

Sunmodule Plus SWA xxx mono or poly Series: Type 1

Sunmodule Bisun SWA xxx XL duo: Type 1

Sunmodule SWA xxx XL mono or poly Series: Type 1

Sunmodule Bisun SWA xxx duo: Type 3

Sunmodule Protect SWA xxx mono or poly Series: Type 3

Module names may be followed by “black” or “clear” or “lamine”. “xxx” is the module power.

When combined with a Class A mounting system our modules meet the photovoltaic fire system Class A requirement.

Revision	Date	Description
1	2018.03.14	Added Sunmodule Bisun modules; added clarification on module frames