

TECHNICAL BULLETIN



MODULE REFLECTIVITY FOR USE IN SGHAT SOFTWARE

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SolarWorld Americas commissioned Sandia National Laboratory to measure the reflectivity of our Sunmodule solar modules. These measurements can be used with Sandia's SGHAT tool for military, state and government users and ForgeSolar PV Planning and Glare Analysis Tool available for other users.

Reflectivity Results

MODULE	GLASS TYPE	20	40	60	70	80
Sunmodule Protect Module Reflectivity	Float Glass with ARC	0.0221	0.0191	0.0280	0.0679	0.2073
Sunmodule Plus/Structured Glass Reflectivity	Structured Glass with ARC	0.0171	0.0167	0.0252	0.0617	0.1882
Sunmodule XL Reflectivity	Structured Glass with ARC	0.0139	0.0148	0.0238	0.0549	0.1433

All SolarWorld modules use glass with anti-reflective coating (ARC).

PV Array

Array name: PV array 1

Description:

Axis tracking: None

Rated power: 4 kW

Panel tilt: 30 deg

Slope error: 9.16 mrad

Orientation (Calculate declination): 180 deg

Reflectivity varies with incidence angle (view data)

Reflectivity: 0.01666

Users of Sandia National Lab's SGHAT should refer to the SGHAT User's Manual for detailed instructions on how to use the program. https://share.sandia.gov/phlux/static/references/glinter-glare/SGHAT_Users_Manual_v2H.pdf

Users of ForgeSolar should refer to the user and technical manuals available at, <https://www.forgesolar.com/help/>

Revision	Date	Description
1	2018.03.19	Added information for ForgeSolar; updated module descriptions