



CLASS A/B SOLAR SIMULATOR

TS-SPACE SYSTEMS™ CLASS A/A/A

FOR CUSTOMERS WHO DO NOT REQUIRE THE HIGH SPECTRAL MATCH OR SPECTRAL CONTROL AVAILABLE FROM OUR UNISIM RANGE, TS-SPACE SYSTEMS™ ALSO PRODUCES CLASS A/A/A AND CLASS B/A/A SOLAR SIMULATORS USING METAL HALIDE SOURCES.

WHAT DEFINES A SIMULATOR CLASS?

THE INTERNATIONAL STANDARDS FOR SOLAR SIMULATORS CLASSIFIES THREE PROPERTIES OF A SIMULATOR FROM GRADES A-C:

- SPECTRAL MATCH
- TEMPORAL STABILITY
- SPATIAL UNIFORMITY

TS-SPACE SYSTEMS™ CLASS A/B SOLAR SIMULATORS ALL MEET CLASS "A" STANDARDS FOR TEMPORAL STABILITY AND SPATIAL UNIFORMITY.

OUR CLASS A SOLAR SIMULATORS MEET CLASS "A" STANDARDS FOR SPECTRAL MATCH WHILE OUR CLASS B SOLAR SIMULATORS MEET CLASS "B" STANDARDS FOR SPECTRAL MATCH.

FULL DETAILS OF THE ASTM E927 STANDARD FOR SOLAR SIMULATORS CAN BE FOUND HERE:

[HTTP://WWW.ASTM.ORG/STANDARDS/E927.HTM](http://www.astm.org/standards/E927.htm)

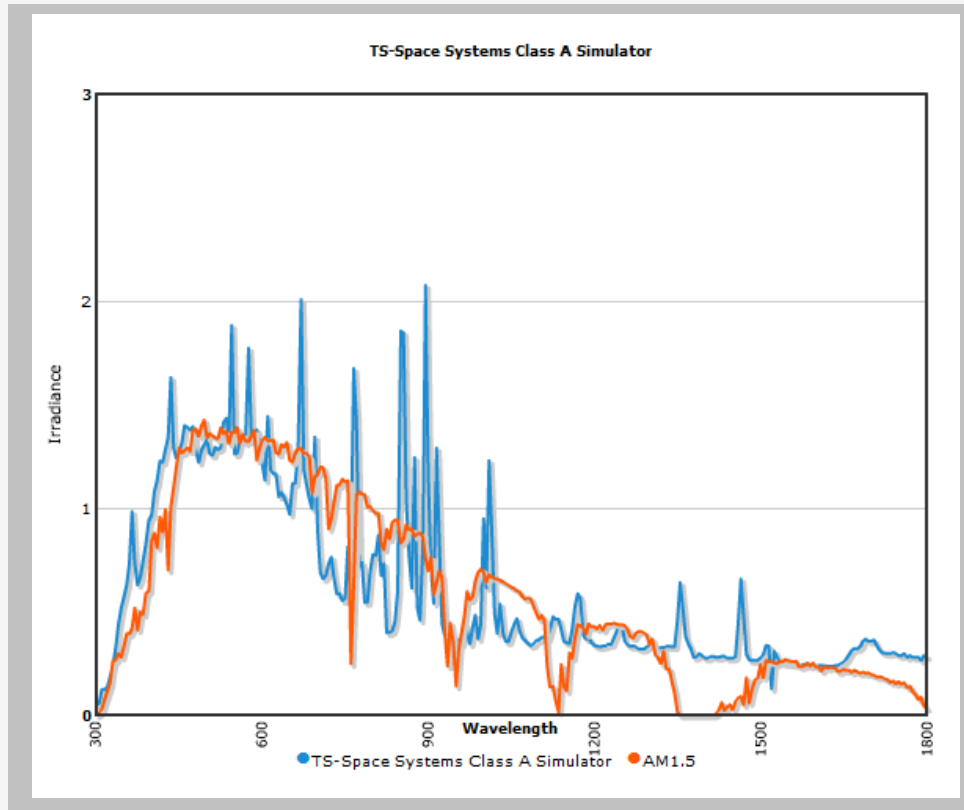


- SAME HIGH TEMPORAL STABILITY AS THE UNISIM RANGE
- QUICK AND EASY MAINTAINANCE
- FULLY ADJUSTABLE, TOTAL IRRADIANCE CAN BE SET AT AM0 OR AM1.5



CLASS A/B SOLAR SIMULATOR

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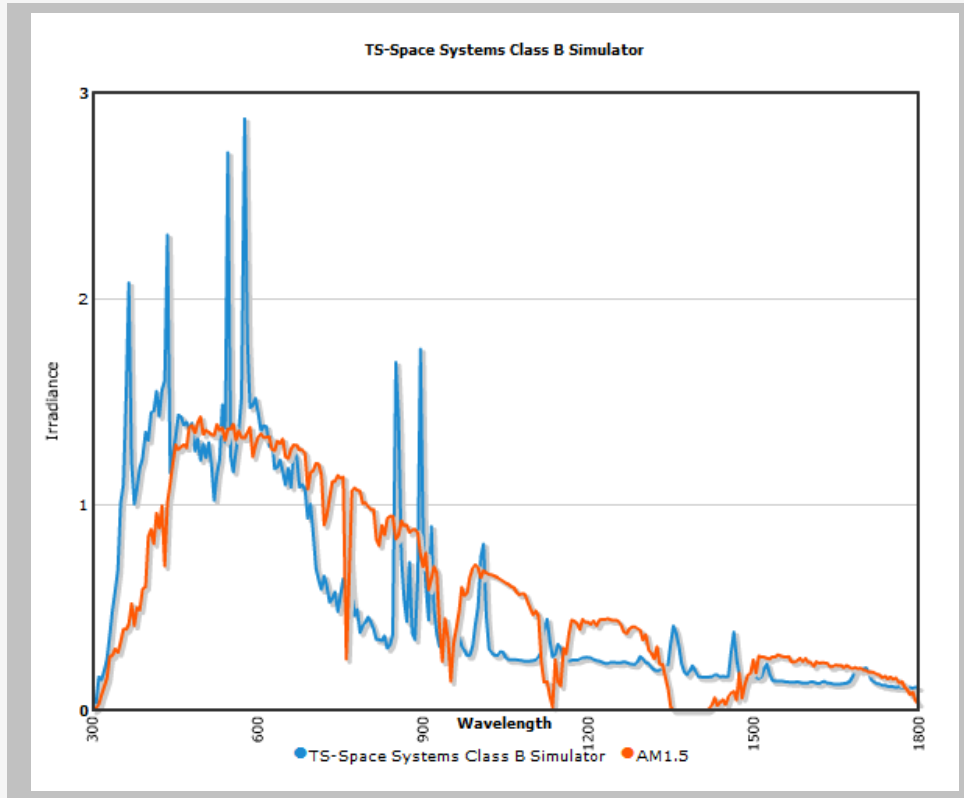
Band	AM.15 %distribution	TS-Space Systems Class A Simulator	% distribution	Class Rating	Class A Upper Limit	Class A Lower Limit
400-500	18.4	58702.9725	19.9495877	19.9495877	23	13.6
500-600	19.9	62203.575	21.13923064	21.13923064	24.875	14.925
600-700	18.4	53417.4975	18.15337462	18.15337462	23	13.6
700-800	14.9	34709.72	11.79573323	11.79573323	18.625	11.175
800-900	12.5	39715.535	13.4969068	13.4969068	15.625	9.375
900-1100	15.9	45507.27	15.46516701	15.46516701	19.875	11.925

* CAN ALSO BE SET FOR AM0. VALUES SHOWN ARE FOR AM1.5. VALUES MAY VARY BETWEEN SIMULATORS.



CLASS A/B SOLAR SIMULATOR

CLASS B/A/A SOLAR SIMULATOR



Band	AM.15 %distribution	TS-Space Systems Class B Simulator	% distribution	Class Rating	Class B Upper Limit	Class B Lower Limit
400-500	18.4	204124	23.12736798	23.12736798	25.76	11.04
500-600	19.9	196678	22.26373185	22.26373185	27.86	11.94
600-700	18.4	161747	18.32602922	18.32602922	25.76	11.04
700-800	14.9	80913	9.167489984	9.167489984	20.86	8.94
800-900	12.5	125354	14.20268114	14.20268114	17.5	7.5
900-1100	15.9	113788	12.89224661	12.89224661	22.26	9.54

* CAN ALSO BE SET FOR AM0. VALUES SHOWN ARE FOR AM1.5. VALUES MAY VARY BETWEEN SIMULATORS.



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RANGE OVERVIEW

OUR CLASS A/B SOLAR SIMULATORS ARE AVAILABLE IN A RANGE OF BEAM SIZES. VERTICAL OR HORIZONTAL BEAM ORIENTATION CAN BE SPECIFIED AT TIME OF ORDERING AND WE CAN BUILD CUSTOM HOUSINGS TO SUIT YOUR TEST REQUIREMENTS.

WE ALSO OFFER A RANGE OF LINE ITEMS SO YOU CAN CONFIGURE YOUR SIMULATOR

TO SUIT YOUR REQUIREMENTS AND BUDGET.

SPECIMEN BLOCKS, COMPLETE IV MEASUREMENT SYSTEMS, PNEUMATIC SHUTTERS AND DATA ACQUISITION SYSTEMS CAN BE ADDED AT POINT OF ORDER. CONTACT US OR VISIT OUR WEBSITE FOR MORE DETAILS.

*	SPECTRUM AVAILABLE	SPECTRAL MATCH (ASTM/IEC/JIS)	TEMPORAL STABILITY (ASTM/IEC/JIS) *	SPATIAL UNIFORMITY (ASTM/IEC/JIS)	COLLIMATION (HALF-ANGLE)	NOMINAL BEAM DIAMETER
CLASS A/A/A	AM0 AND AM1.5	A/A/A	A/A/A +/- 0.15% (FOR 60MM BEAM) +/- 0.2% (FOR 100MM BEAM) +/- 0.5% (FOR 200MM BEAM) +/- 0.6% (FOR 300MM BEAM)	A/A/A	2-3 °	60MM 100MM 200MM 300MM
CLASS B/A/A	AM0 AND AM1.5	B/B/B	A/A/A +/- 0.15% (FOR 60MM BEAM) +/- 0.2% (FOR 100MM BEAM) +/- 0.5% (FOR 200MM BEAM) +/- 0.6% (FOR 300MM BEAM)	A/A/A	2-3 °	60MM 100MM 200MM 300MM

* FINAL VALUES MAY VARY AND ARE DEPENDENT ON A QUALITY ELECTRICITY SUPPLY