

Light soaking Module

LS 1400

Technology information

- ◆ *Combining European technology and Taiwanese manufacturing skill, LS 1400 is one of leading process system for soaking thin film module to enhance the crystallization procedure.*
- ◆ *Flexible module design allow one standard 1400 x 1100 size of panel or two pieces of 1250 x 625 mm sized panels to be processed.*



ADM Tech Co., Ltd.

No. 42, Lane 145, Da An Rd,
Shu lin City, Taipei Hsien,
Zip 238, Taiwan.

TEL: +886-2-2681-5181

FAX: +886-2-2675-1972

Website: www.admtech.com.tw

System description

- Light soaking system creates simulated sunlight by combined different lamps for soaking purpose on thin film photovoltaic modules.
- The lamps produce simulates solar radiation over the testplane allowing module maximum size of 1450 mm x 1300 mm (with frame) to be irradiated. Total output power can be adjusted to reach the desired light level across the test plane according to IEC 904-9 standard. Class C.
- Using radiation meter to measure output irradiance on the test plane, and it is integrated over time to record.
- Two thermocouple sensors are connected to the back side of the module to detect and control the module temperature to meet the IEC standard $40-50 \pm 2 \text{ }^\circ\text{C}$ during test period.

Specifications:

Maximum Module Dimensions:

With frame 1450 x 1300 mm or 1250 x 650 mm (2 pcs)

Light source:

2 types of metal lamps.

Intensity range: 800 to 1000 w/m^2

Lamp life: 2000 hrs.

Spectrum match: better than Class C

Irradiance Temporal Stability: better than Class C

Uniformity: better than Class C

Reference device

Silicon Pyranometer

System Dimension:

Length x Width x height (cm) 186 x150 x 267

Weight:

850 kg

Electric power supply:

VAC 220 50A, 50-60 Hz 3-phase.+ ground

or

VAC 380 30A, 50-60 Hz 3-phase.+ ground + N

Ambient Condition:

Below 10000 class

Positive pressure

Room Temperature at $23^\circ\text{C} \pm 2^\circ\text{C}$

Humidity: $50\% \pm 10\%$

Cooling Water: $7\sim 10^\circ\text{C}$ at flow 200L/min-2kg/cm²(1")

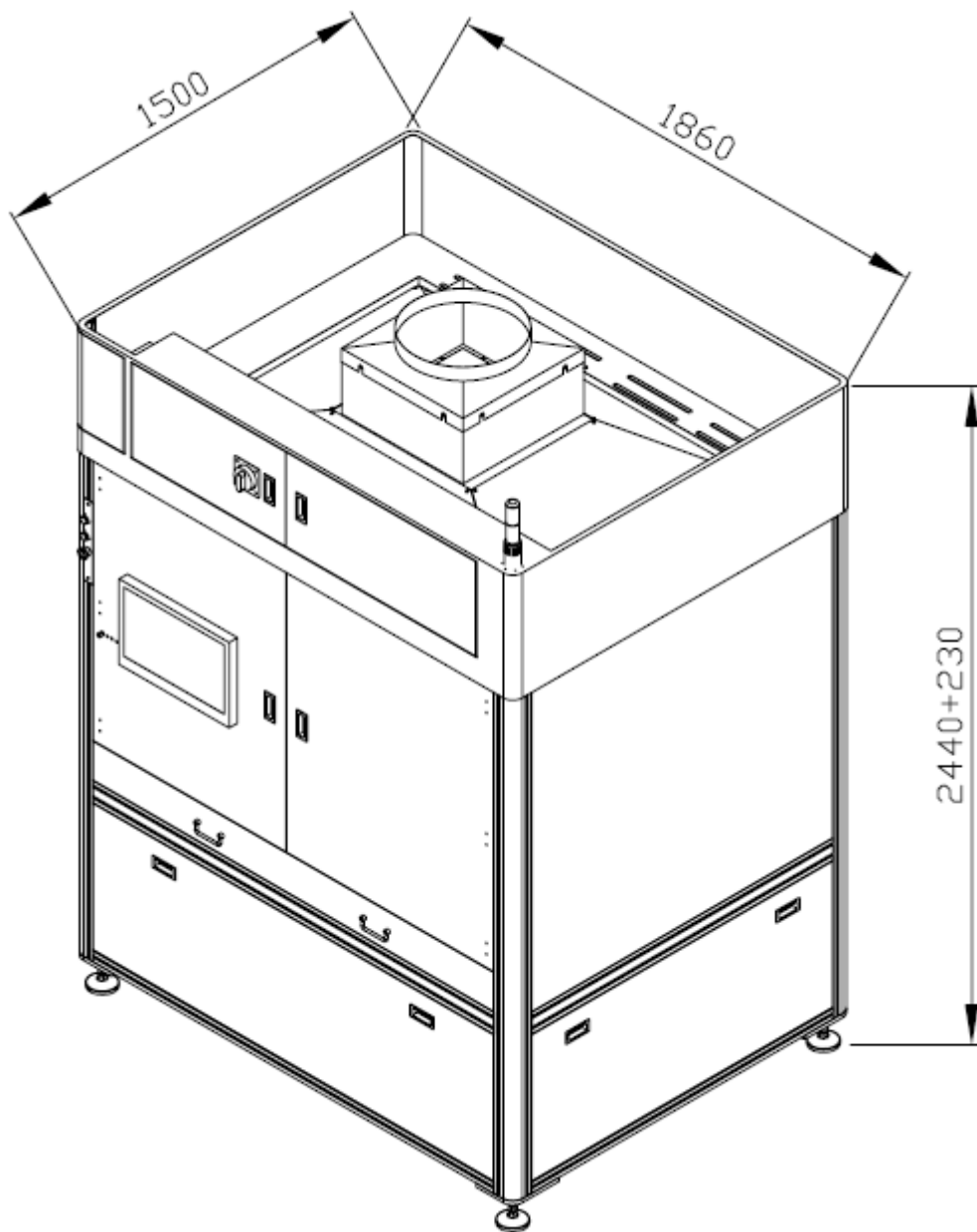
Warranty:

One year after delivery and commission

Not included in the offer:

- Extract hoods
- Mains connection, fused isolator as specified above.
- Chiller for cooling water

All information provided above is subject to change without notice



LS 1400 - THE LEADING PROCESS SYSTEM FOR SOAKING THIN FILM MODULE TO ENHANCE THE TRANSFORMATION OF Si-H BONDS AND THE CONDUCTION BAND OFFSET OF CIGS.



System Dimensions :

Length x Width x Height (cm): 186 x145 x 253 (+23) • Fit for module 1450 x 1200 mm or 1250 x 650 mm (2 pcs)

Light source :

Steady-state white light • Intensity range: 800 to 1500 w/m²

Uniform temperature control