



SS-3200

Production Line Solar Simulator



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



Description:

ATL Technology would like to introduce our latest product - 200 mm x 200 mm Production Line Solar Simulator. which is designed to measure high efficiency solar cells.SS-3200 can do the Busbar-free solar cell measurement automatically. The flash time of this solar simulator can be 10 ms-1 sec adjustable along with the high speed (low cycle time <0.5 sec) and 10 ms-1000 ms pulse width. For the industry filed, ATL Technology also offer customized production line to fit all customers' requirements and enhance the measurement efficiency, such as automatic integrated instrument with loading and unloading function or sorting machine.

Features:

High Performance

- A+AA+ Xe lamp solar simulator
- Repeatability ≤±0.1 %
- EL testing

Accurate Test for high Voc and high efficiency cell

- 10~1,000 ms pulse width
- Suitable for solar cell with Voc up to 750 mV

High-Speed

- 4 synchronous 16-bit channels
- Low cycle time < 0.5 sec
- Max throughput 7200 w/h

Flexibility

Support 3BB, 4BB, 5BB, MBB, 0BB cell contact

>> Specification:

SS-3200 A+AA+ Xenon Solar simulator		
Non-Uniformity of irradiance	≤±1.5%, class A	
Temporal Instability	≤±1%, class A+	
Illumination area	200 mm x 200 mm	
Pulse Width	10ms~1,000 ms	
Lamp lifetime	>1,500,000 @ 1,000 ms pulse width	
Through-put	Max 7200 w/h @ 150 ms pulse width	
Min Cycle time	0.5 sec @ 150 ms pulse width	
Irradiance Range	100~1200 W/m²	
Multi-level IV curves test <700 m	ns (under 5 levels from 100~1000 W/m² @ 100 ms pulse width)	



IV Curve Tracer		
4 synchronous 16-bit channels for voltage, current, irradiance and temperature		
Measurement resolution	<0.004 % FSR	
Measurement accuracy	<0.05 % FSR for current and voltage	
Voltage measurement range	±20 V/ ±10 V/ ±5V/ ±2.5 V/ ±1.25 V	
Current measurement range	±16 A/ ±8 A/ ±4 A/ ±2 A/ ±1 A	
Power Repeatability (STD)	≤±0.5 %	
Open Circuit Voltage	≤0.1%	
Repeatability (STD)		

IV Curve Software and Contact		
Test parameters	Isc, Voc, Ipm, Vpm, Pmax, FF, Eff, Rs, Rsh	
Output curves	IV curves, Pm curve	
Isc Voc, Voc Isc scanning		
Temperature correction		
Irradiance correction (auto and simultaneously)		
Implemented PLC and MES interfaces		
3BB, 4BB, 5BB, MBB, 0BB test fixtures		

Regulatory compliances



Corporate Social Responsibility

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