ATS Custom Solar Testing





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Description

Representing over 20 years of ATS development in providing cell and module testers for crystalline and thin film applications in both automated production and manual laboratory environments . Built on our custom tooling and proven ATS Test Executive test management software, customers can have confidence in the quality & reliability of our testers.

Optional:

- Dark curve
- Calibrated reference cell
- Infrared temperature measurement
- Temperature controlled nest
- Vision inspection
- Molded urethane cell carriers
- Laser induced current (LBIC)





Specifications

ΑŢ	S	Test	P۷	Cell	Test	System	Specifications

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Model	ATS Test Cell Test System	ATS Test cell/Module Test System
Year of market introduction	1998	2003
Simulator Dimensions		
Total system size (length x width x height)	Custom	Custom
Total system weight	Custom	Custom
	Gustoni	Custom
Light Generator		
Manufacturer of light generator	Simulator integrated	Simulator integrated
Max. illuminated area	200 x 200 mm	3000 x 4000 mm
Cell type	All	All
Weight	Simulator integrated	Simulator integrated
Length x width x height	Simulator integrated	Simulator integrated
Light Generator - Power Supply		
Utilities	95-264 VAC/15A/47-63Hz	1Ph, 115/230V, 50/60Hz
Max. power	1.1 kW	2kW
Average power consumption	1.0 kW/h	0.8kW/h
Electronic Load		
Manufacturer of electronic load	ATS Test Systems	ATS Test Systems
Measured voltage ranges	0-1V	0-100V
Measured current ranges	0-1V 0-10A	0-100V 0-37.5A
Voltage resolution	0.002%	0-37.3A 0.153%
Current resolution	0.002%	0.153% 0.057%
Reference cell range		0.007% 0-1 Vdc
	0-1 Vdc	
Accuracy	± 0.25%	± 0.25%
Max. cell output power under flash light	10W	400W
Duration of IV measurement	1 sec	10ms
D/A and A/D resolution	16 bits	16 bits
Max. no of measuring points per curve	750	750
Max. data acquisition speed per measurement	133 μs	0.0133 μs
Max. cell measurements	Loading dependent	Loading dependent
Nominal cell measurements	Loading dependent	Loading dependent
Tests Performed		
	Complete I-V Curve	Complete I-V Curve
	Open Circuit Voltage	Open Circuit Voltage
	Maximum Power	Maximum Power
	Current & Voltage @ Max Power	Current & Voltage @ Max. Power
	Short Circuit @ Fixed Voltage Level	Short Circuit @ Fixed Voltage Level
	Efficiency	Efficiency
	Series Resistance	Series Resistance
	Parallel Resistance	Parallel Resistance
	Temperature	Temperature
System Control + Software		
PC inclusive	ATS Test Executive	ATS Test Executive
Soft. Incl. Database	Yes	AIS Test Executive Yes
Soft. Incl. Tools for integr. in autom. cell sort unit		
Read/print facility for barcode labels	Yes	Yes
nead/print racinty for parcode labels	Opt.	Opt.



Contact ATS directly for custom or product specific applications beyond the scope of this document.

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