



Y05-2/UM Solar Cell Tester and Sorter



Overview

Y05-2/UM Solar Cell Tester and Sorter is designed for the automatic testing of solar cell's electrical performance and the automatic sorting based on its parameters.

Benefits



Two options for solar simulator: Halm and Berger, both compliant with IEC904-9 standard.



Unique cell loading and transport method to ensure lower breakage rate.



Multiple sorting rules to meet different clients' needs.



Sorting rules customizable based on inspection results; sorting results recordable and exportable.



Industry special probe and four-wire measurement system to achieve more precise testing results.

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Specification

Throughput	1600 pcs/h
Cell thickness	140 – 300 μ m
Cell dimension	125 mm \times 125 mm, 156 mm \times 156 mm
Probe	gold surface umbrella probe, with continuously adjustable pressure of 0 ~ 1 N
Working method	full-automatic testing and sorting
Busbar compatibility	compatible with 3BB, 4BB and 5BB solar cells
Breakage rate	< 0.1% (cell with thickness of 140 – 300 μ m)
Sorting grade	32
Loading method	laminated loading with belt conveying and cassette buffering
Cell transport	precise silent static-friction belt conveying
Data storage	Microsoft Office Access database
System dimension	4500 mm \times 1600 mm \times 2300 mm (L \times W \times H)

Testing Parameters

Uoc	Open Circuit Voltage [V]
Isc	Short Circuit Current [A]
Umpp	Voltage at Pmpp [V]
Impp	Current at Pmpp [A]
Pmpp	Maximum Power [W]
FF	Fill Factor [%]
E	Irradiance in Pmpp [W/m ²]
nCell	Cell Efficiency [0..1]
Rs	Serial Resistance [ohm]
Rsh	Shunt Resistance [ohm]
Iap	Current at Uap [A]
Irev1	Reverse Current at Urev1 [A]
Irev2	Reverse Current at Urev2 [A]
PSL	Error hardware Error
Usc	Voltage at Isc
Temp	Temperature [°C]