

K5000 XF2000

Electrical, Optical & Thermal
Imaging & Test Systems

PV Module I-V Parameter Test System

Test equipment for measuring large area solar module conversion efficiency

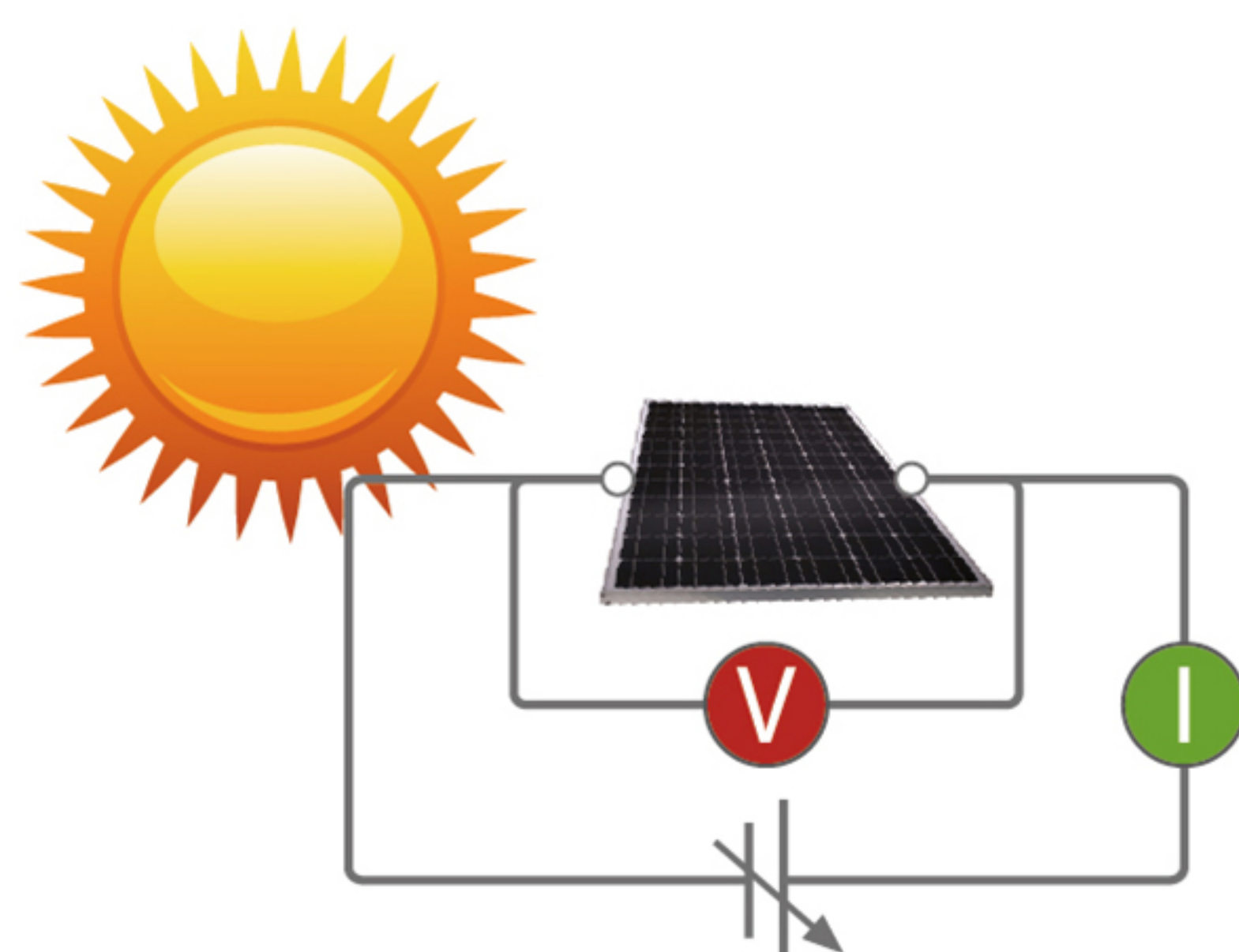
The system provides a total package for standard measurements of solar conversion efficiency, including simulators for large area solar module inspection, solar power meters with various current ranges, test jigs and measurement software.

Module Solar Simulator

Class AAA

I-V Test

Solar Efficiency



Class AAA Module Solar Simulator

Long life lamp & power supply

High Speed I-V Test

Solar Conversion Efficiency

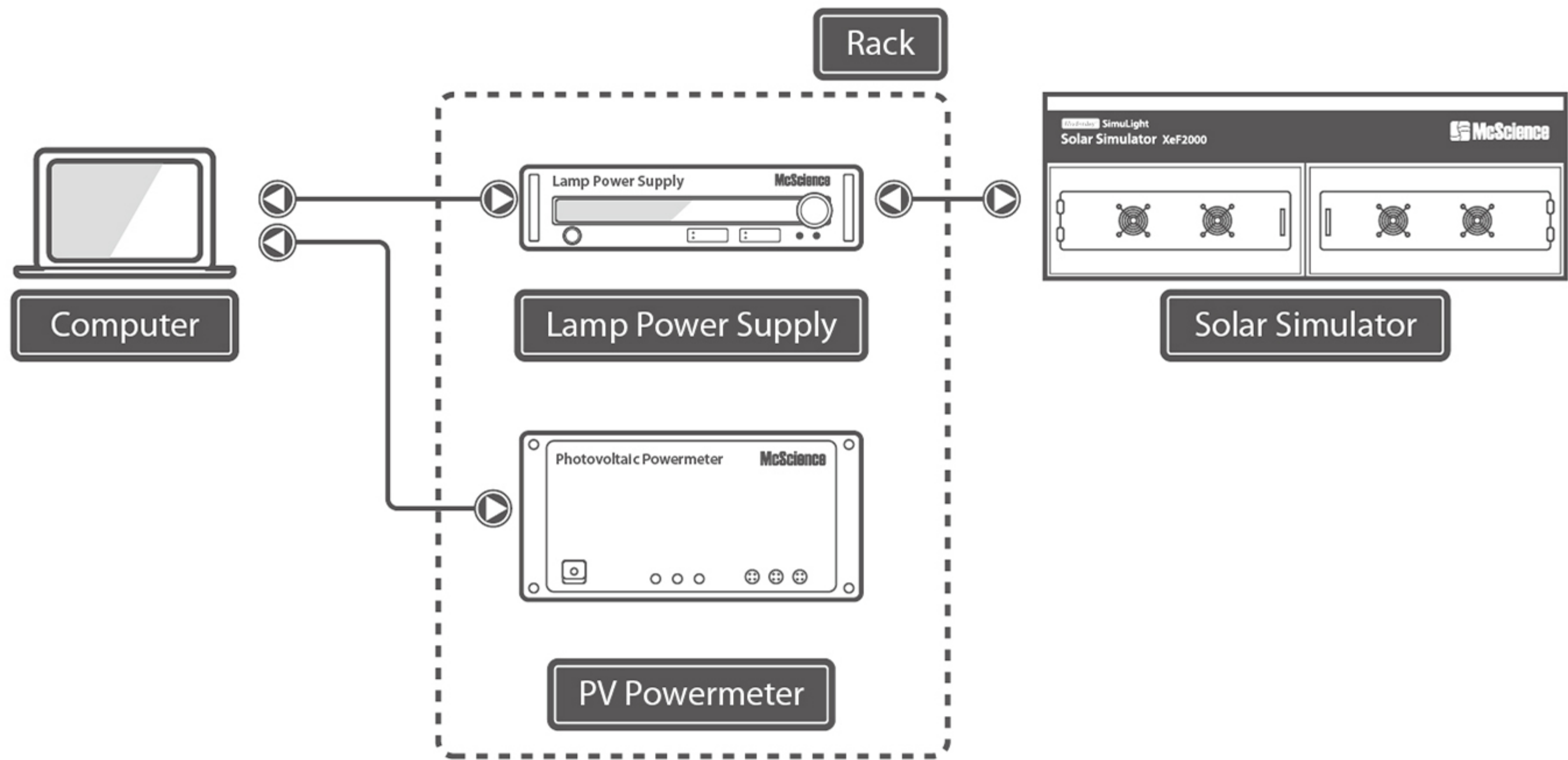
Maximum Power/Fill Factor



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System Configuration



System Components



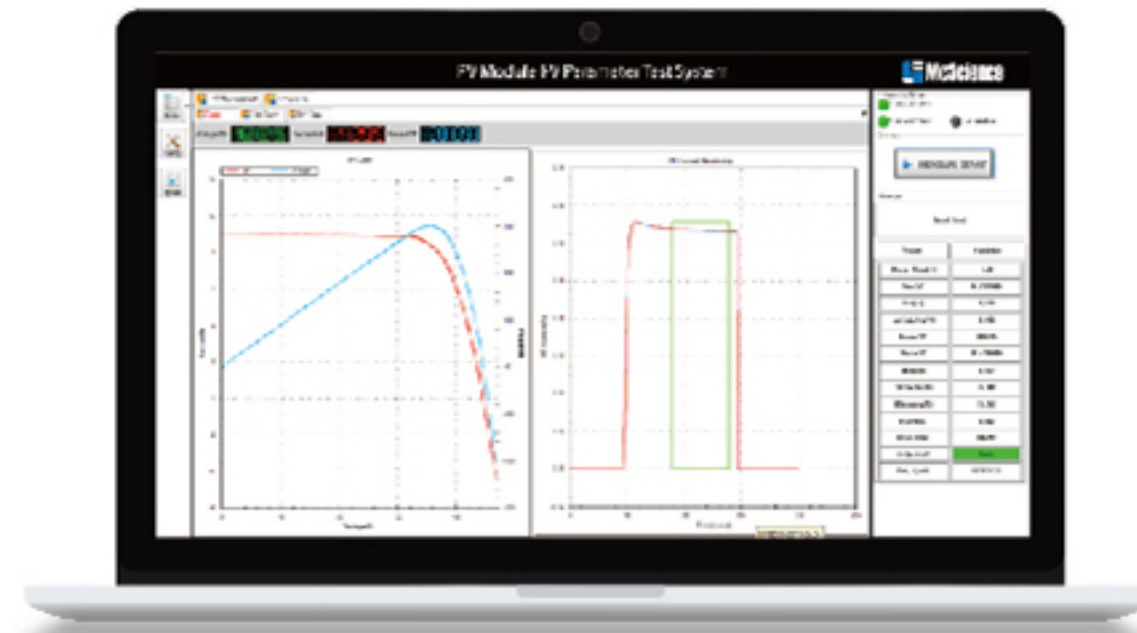
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<PV Powermeter>



<Solar Simulator>



<PV Module I-V Parameter Test S/W>



System Specification

Product Name		K5000 XF2000 PV Module I-V Parameter Test System
Function		Solar Module IV Curve Measurement
Size / Weight		2950mm(W) x 2300mm(D) x 900mm(H) /Approx. <30kg
Power		1-Phase 220V / 60Hz, Max. 12kW
Operation Mode		Voltage Control Current Measurement(4-Quadrant Operation)
IV Channel	Voltage Range	-60V ~ +60V
	Voltage Resolution	2000uV@±50V
	Current Range	±20A, ±2A
	Current Resolution	2mA@±20A, 0.2mA@±2A
	Accuracy	±0.1% of Full Range
	Sampling Rate	20kSPS (50usec)
PD Mode	Current Range	±200mA, ±10mA
	Current Resolution	0.2mA@±200mA, 0.01mA@±10mA
Temp Mode		-200℃ to +1350℃
Trigger		Input 1ch, Output 2ch, BNC Coaxial Jack, 5V-TTL
Measurement Item		Voltage, Current
Communication		LAN 100Base-T(RJ-45), USB 2.0(4pin B Type), RS-232 115200bps(9pin DSUB)