



SOLAR CELL TESTER

DKSCT series

I-V tester is based on IEC60904-1 and JIS C 8913

Solar simulator is based on IEC60904-9 and JIS C 8212

Output characteristic inspection tester of crystalline solar cells

Available for both of R&D and mass-producing

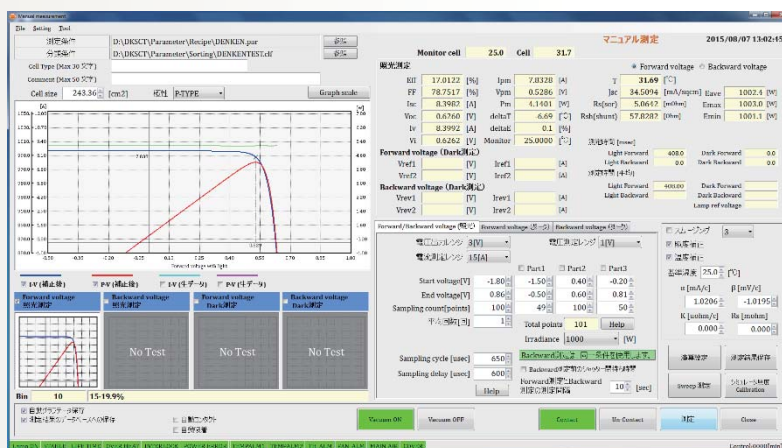


Standard functions

- Automatic production mode
- Manual measurement mode
- Automatic irradiance adjustment function
- Repeatability measurement function
- Bias response measurement function
- Rank setting
- Parameter setting and measured data saving
- I-V tester self check function

Standard structure

- Solar simulator : Class AAA
- I-V tester with PC(Windows 7)
- Monitor cell with temperature control function
- Non-contact type radiation thermometer



I-V Tester Specifications

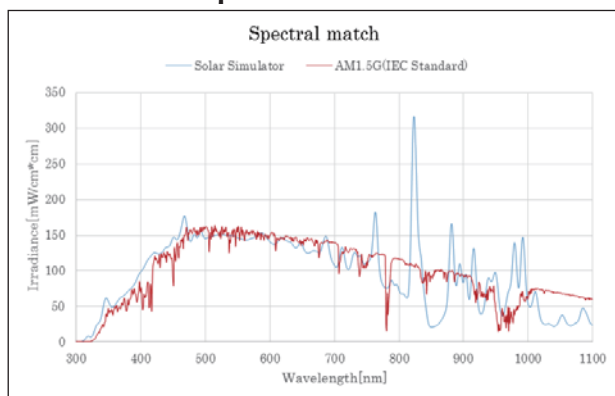
Power Supply		1φ AC200V to 220V, 50/60Hz 1000VA	
I-V Tester	Output Voltage	Output range	3V Range : -3V to +3V 16V Range : -16V to +3V
		Output current	-15A to +15A
		Setting resolution	1/30000 of Range
		Setting accuracy	±(0.05% of F.S. + 0.05% of Setting)
	Voltage Measurement	Measurement range	1V Range : -1V to +1V 2V Range : -2V to +2V 4V Range : -4V to +3V 8V Range : -8V to +3V 16V Range : -16V to +3V
		Measurement resolution	1/16000 of Range
		Measurement accuracy	±(0.05% of F.S. + 0.05% of Reading)
	Current Measurement	Measurement range	15A, 7.5A, 3A, 1.5A, 150mA, 75mA, 30mA, 15mA Range
		Measurement resolution	1/15000 of Range
		Measurement accuracy	±(0.1% of F.S. + 0.1% of Reading)
	Throughput	Up to 4000W/h	
	Repeatability	Isc, Voc, Pm, Eff and FF ≤ ±0.1%	
	Electric Load	Active 4-Quadrant load	
Measurement Functions	Measurement Mode	Under the light : Isc -> Voc direction, Voc -> Isc direction Without the light(Dark) : Isc -> Voc direction, 0V -> -xV direction	
	Parameters	Isc, Voc, Pm, Vpm, Ipm, FF, Eff, Iv, Vi, Rs and Rsh	
PC	OS	Microsoft Windows 7 Professional	
Dimension W×D×H (mm)	I-V Tester	432mm×450mm×222mm Not including projection	
	PC	425mm×490mm×175mm Not including projection	
Weight (I-V Tester)		16Kg	

Solar Simulator Specifications

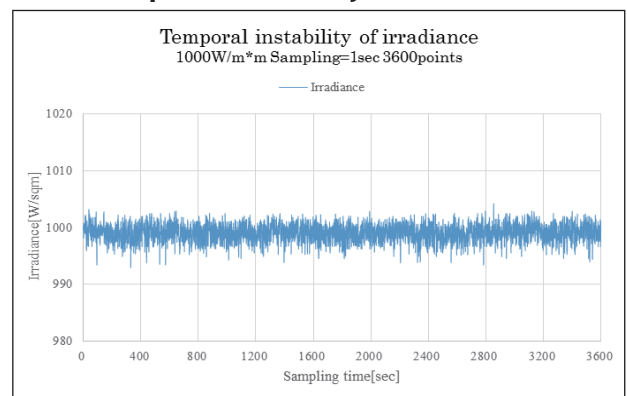
Type	Steady state lamp
Spectral Match	Within 0.85 - 1.15 (ClassA : 0.75 - 1.25)
Temporal Instability of Irradiance	≤ 1% (ClassA ≤ 2%)
Non-uniformity of Irradiance	≤ 2% (ClassA ≤ 2%)
Irradiance	180mm×180mm or 200mm×200mm
Lamp life time (Guarantee)	Average 1000 hours

※IEC 60904-9

Spectral Match



Temporal Instability of Irradiance



DENKEN

<http://www.dkn.co.jp>

Denken Co.,Ltd.
97-1, Takasaki, Hasama-machi, Yufu-shi, Oita, 879-5513
TEL +81-97-583-5535 / FAX +81-97-583-5580
E-mail:pv_info@dkn.co.jp