



## MP-160 I-V Tracer

### Technical Specifications

PV cells and modules up to 300W

Auto measurement schedule

Advanced PC control software and data analysis

Expand to 48 module and temperature channels

The MP-160 I-V tracer is the optimum solution for testing individual solar cell or module characteristics in combination with a solar simulator or natural sunlight. It can be found in factory quality control applications or long-term performance assessment studies of modules exposed to natural conditions outdoors. The cell or module performance characteristics are determined by changing the electrical load during the I-V sweep. The radiant energy on the module energy can be measured simultaneously with the voltage and current measurements in order to calculate to STC or equivalent standards.

For outdoor evaluation of PV modules under natural sunlight, the MP-160 offers a high level of flexibility to test several modules at the same time. During long-term exposure tests, automatic measurements can be scheduled for continuous data retrieval of the measurable modules parameters. By using the module selector, up to 48 modules can be connected to the MP-160, to sequentially measure each individual I-V

curve. Similarly, individual temperature measurements are performed with the T-type thermocouple selector. If modules are mounted with different tilt angles, the 5 channel pyranometer selector can be used to measure the total radiation in plane with the module.

	<b>MP-160</b>
Measurement range Voltage	0.05 - 300 V
Measurement range Current	0.005 - 10 A
Measurement range Power	0 - 300 W
Voltage range	auto / 3V / 30V / 300V
Voltage resolution	0.05 $\mu$ V
Current range	auto / 0.03A / 0.3A / 3A / 10A
Current resolution	0.005 A
Sweep time	2 - 330 Sec.
Accuracy	+/- 0.5 %
Data points	256
Data storage Internal memory	PC
Operating temperature range	0 - 40 °C
Communication	RS-232
Power supply	100 - 240 VAC, 200W
Dimensions mm	370 (W) x 350 (D) x 133 (H)
Weight	9 kg
Ingress protection IP	-
Input channels #	1

Options	<b>MP-160</b>
Thermocouple T-Type	TT-10-SL-YT
Thermocouple T-Type (20m)	TT-20-SL-YT
Thermocouple T-Type (30m)	TT-30-SL-YT

Specifications are subject to change without further notice.