



MP-180 I-V Tracer

Technical Specifications

Wide current range 10 μ A - 16A

Large voltage range 10mV - 20V

Switch function to control sun simulator light shutter

Trigger function for Flash simulator

Multichannel switcher

The high precision MP-180 I-V tracer is the ultimate research instrument for Photovoltaic cell development and quality inspection purposes. Its wide input range (μ A - A) makes the MP-180 a unique all-round measurement device suitable to test all types and sizes of Photovoltaic cells.

When used in combination with a Pulsed or Continuous Sun Simulator, I-V curve measurements can be fully automated using the built-in trigger function either to synchronize with the flash or control of the sun simulator shutter. The MP-180 is operated by a PC using advanced software functions for visualizing data, data management and to calculate specific cell parameters e.g. R_s , R_{sh} and other characteristic values.

Connecting with the optional switching units will allow for the configuration of various measurement systems using the multiple PV cells, pyranometer, thermocouple, and platinum resistance temperature

sensor.

	MP-180
Measurement range Voltage	0 - 20 V
Measurement range Current	0 - 20 A
Measurement range Power	0 - 100 W
Voltage range	auto / 20V / 2V
Voltage resolution	0.24 - 2.4 μ V
Current range	auto / 20A / 2A / 200mA / 20mA / 2mA / 200 μ A / 20 μ A
Current resolution	0.24 A (pA)
Sweep time	0.005 - 300 Sec.
Accuracy	+/- 0.1 $^{\circ}$ C
Data points	4096
Data storage Internal memory	PC
Operating temperature range	0 - 40 $^{\circ}$ C
Communication	RS-232 / USB / LAN
Power supply	100 - 240 VAC, 200W
Dimensions mm	450 (W) x 459 (D) x 133 (H)
Weight	9 kg
Ingress protection IP	-

Options	MP-180
Thermocouple T-Type	TT-10-SL-YT
Thermocouple T-Type (20m)	TT-20-SL-YT
Thermocouple T-Type (30m)	TT-30-SL-YT