

I-V Checker

Photovoltaic Module & Array Tester



EKO portable I-V Checker MP-140 measure the I-V curve characteristics of photovoltaic(PV) module & array (50W to 10kW). MP-140 is used for the operation check of PV power generation plant and periodic maintenance.

MP-140 is a stand-alone instruments. Measured parameters, I-V curve and operation guidance are available on the integrated LCD, so MP-140 suit for field measurement. Up to 70 measured data can be stored in the non-volatile memory.

Measurement and analysis software is included. The software converts the acquired data to the one to be acquired at the standard test condition (STC). It also converts the data to the text file.

*STC : Module temperature 25°C, Solar irradiance 1000W/m², Solar spectrum AM1.5

Specifications

I-V CHECKER MP-140	
Measuring method	Condenser loading method
Range	50W to 10kW, 25V to 350V, 2A to 30A
Inputs	PV Device (four-terminal method) x 1
	T-type thermocouple x 2
	Pyranometer or Reference Cell x 1
Measuring parameters	Max. Power (Pmax)
	Short-Circuit Current (Isc), Fill Factor (F.F.),
	Max. Power Current (Ipm), Open-Circuit Voltage (Voc),
	Max. Power Voltage (Vpm), Solar Irradiance,
	Ambient and PV Device Surface Temperature,
	I-V Curve STC Conversion
	I-V Curve STC Conversion
Data storage	Non-volatile memory, max.70 data
Interface	RS-232C
Power requirements	20W (AC100 to 240V, DC12V/1A AC-Adapter)
Dimensions, Weight	290 x 115 x 240 mm, 2.8 kg
Standard package	I-V Checker MP-140, AC Adapter, Cable 10m (4-Wire, MP-140 - PV devise), T-type thermocouple 10m
	Measurement and Analysis Software (Windows, Download data, STC conversion, Measurement Control, Managing Data) ,
	RS-232C Cable
Options	Pyranometer, Portable thermal head printer

