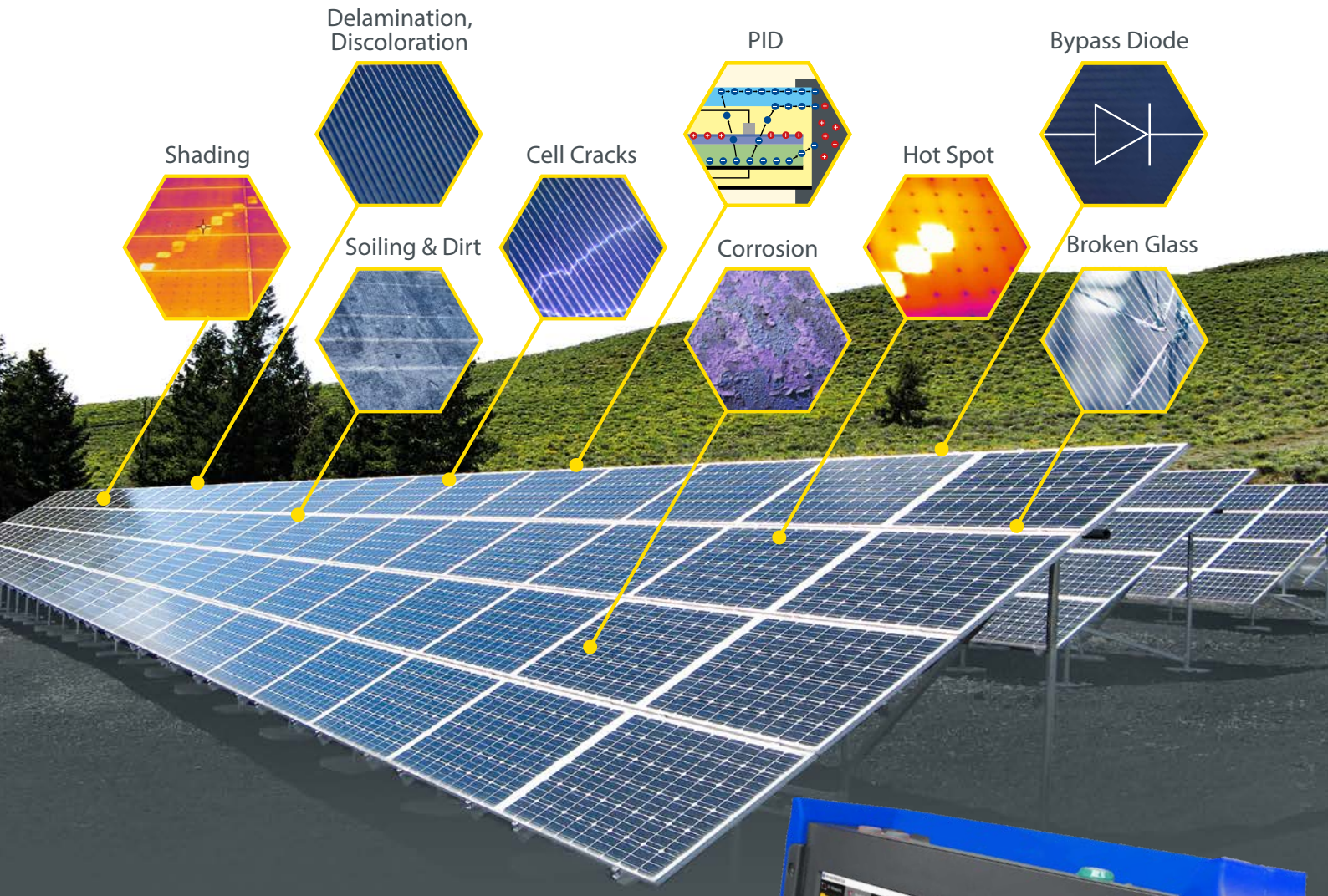
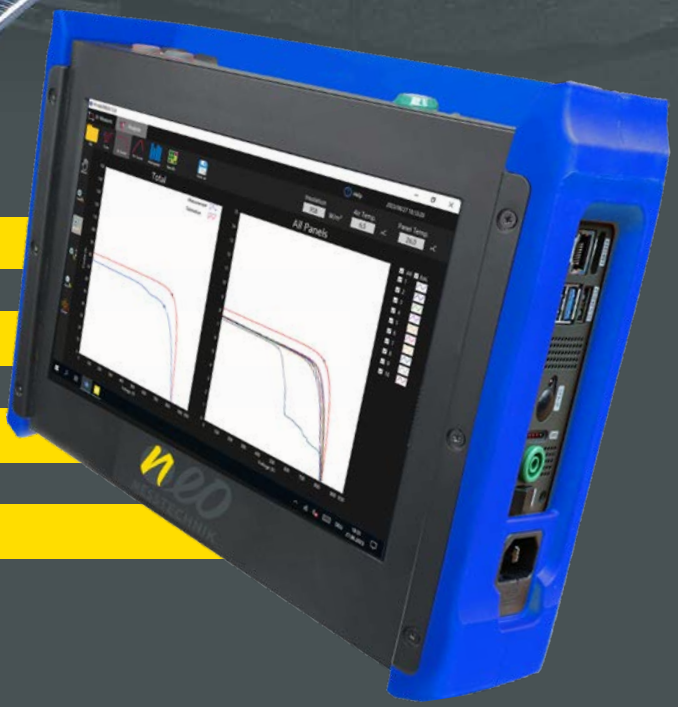
neo MESSTECHNIK

MULTI-CHANNEL IV CURVE TRACER

World's most versatile Solar Power Plant diagnostic system





POWER PERFORMANCE

IV-CURVE-TRACING

DISTANCE-TO-FAULT

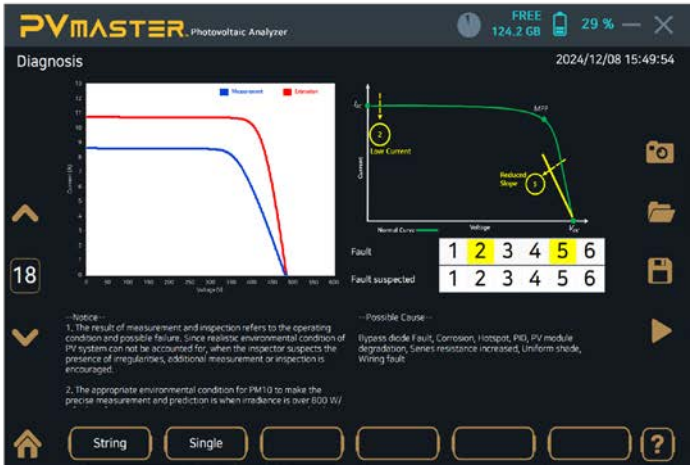
LEAKAGE MEASUREMENT

Measurement and Report

IV-curve tracing up to 45A

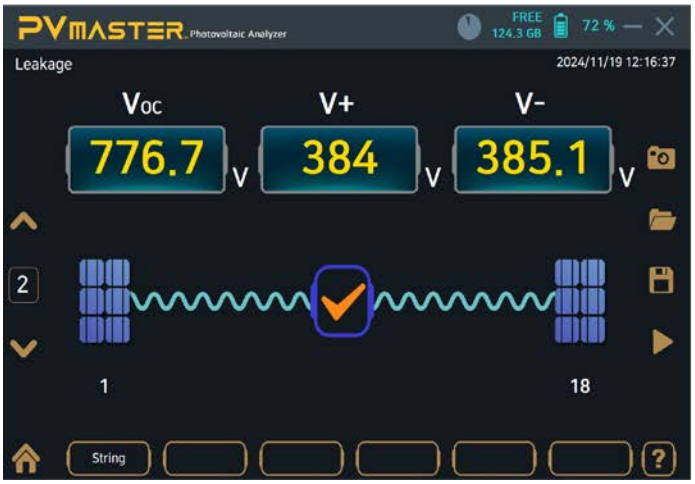
The measured IV (**up to 2200 data points**) curve is compared with the reference curve. The differences between the two indicate different errors. A total of 1-20 strings are measured per measurement. The analysis can then be carried out using the various software tools. This measurement can be carried out on **any type of module**, such as **N-type, P-type** and even **high-capacitance modules** with **inrush currents up to >200A.**

Automatic Analysis



In the automatic fault analysis, the measured curves are analyzed and divided into fault groups. This step makes it easier for technicians to identify faults and subsequently correct them.

Safety measurement & Distance-to-Fault



The safety measurement is used to determine whether leakage currents occur on the string. This measurement provides protection for both the measuring device and the technician. The benefit of this measurement is that the location of the fault is displayed as well.

Advantages

Why is it the world's most versatile Solar Power Plant diagnostic system?

- **Multimeter Mode (U, I, P)**
- **Mobile Operation up to 4 hours**
- **Easy Remote Connection (LAN, WLAN, UMTS)**
- **Direct Analysis on the Instrument using the 10.1 inch Multi-Touch-Screen**

World's only instrument to detect parallel Mismatch-Losses

Automatic Report

With the automatic report function, fault reports can be created in seconds. These are saved as PDF files. The report can be customized with various customization options.

Up to 20 strings simultaneously

The modular system of the PV-Master series offers the user the greatest possible flexibility.
Via an external switch box, 1, 4, 8 or 20
input channels can be connected to the device.

4 Channel Extension: ~80 kW per measurement (PM10-EXT-4CH)

8 Channel Extension: ~160 kW per measurement (PM10-EXT-8CH)

20 Channel Extension: ~400 kW per measurement (PM10-EXT-20CH)

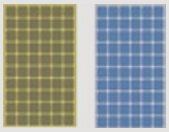
Sensorbox Expert

Temperature measurement
- Up to 5 Sensors
- PT100/PT1000/Thermocouple

Connectivity
- WIFI up to 100 m
- Cable connection
- Live values on the display

Solar Irradiance measurement
- Pyranometer Class A, B or C

- Reference cell



- „Golden String Measurement“

- Up to 3 pyranometers for bifacial modules

Additional inclination measurement

PV MASTER 10

SPECIFICATION

Measurement range	current	45 A
	voltage	1500 V
Measurement accuracy	0,05%	
Safetycategory	CAT III 1000V	
Data points per IV curve	2285	
Measurement time per string	~200 ms	
max. Inrushcurrent	200 A	
min. Irradiation	400 W/m²	
Battery	4 h	
Internal SSD	2 x 256 GB	
Interfaces	LAN/WLAN/USB/HDMI optional LTE	
Size	298 x 225 x 95 mm	
Weight	4,3 kg	

Website and Videos

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