



# I-V600

ADVANCED INSTRUMENT FOR I-V CURVE  
MEASUREMENT UP TO 1500V/40A



METEL **HVOIV600**

# I-V600

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I-V CURVE MEASUREMENT  
UP TO 1500V/40A



TOUCHSCREEN  
SYSTEM



**1500V  
40A**

- › **I-V Curve 1500V / 40A** of **monofacial** and **bifacial** modules (also high efficiency)
- › Colour touchscreen display with **manual rotation of the screen** so that the instrument can be used when hung upside down
- › Testing of Monofacial and Bifacial modules
- › Complete I-V curve measurement with detection of both the Max module/string power and **"Commissioning tests"** (rapid open-circuit voltage and short-circuit current tests according to IEC 62446)
- › Internal database to manage approx. 63000 PV modules
- › Comparison of results with manufacturer's nominal values (@STC) and immediate outcome (OK/NO) of measurements



# TECHNICAL DATA SHEET

## TECHNICAL SPECIFICATIONS

|                                                                                                                                       |                               |                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------|
| Measurement category                                                                                                                  |                               | CAT III 1500 VDC                     |
| Type of PV panels - all types of panels                                                                                               | Monofacial                    | ●                                    |
|                                                                                                                                       | Bifacial                      | ●                                    |
| I-V Curve - Voltage measuring range                                                                                                   |                               | 3.0V - 1500V DC                      |
| I-V Curve - Current measuring range                                                                                                   |                               | 0.2A - 40A DC                        |
| Multimeter (input voltages and environmental parameters)                                                                              |                               | ●                                    |
| Measurement of environmental parameters via SOLAR03 (Bluetooth connection, up to 100m in free field)                                  | Solar irradiation             | ●                                    |
|                                                                                                                                       | Module temperature            | ●                                    |
| Commissioning test @ OPC (Operating Conditions) with outcome (OK/NO)                                                                  | Open-circuit voltage (Voc)    | ●                                    |
|                                                                                                                                       | Short-circuit current (Isc)   | ●                                    |
| Commissioning test @ STC (Standard Test Conditions) via SOLAR03 (Bluetooth connection, up to 100m in free field) with outcome (OK/NO) | Open-circuit voltage (Voc)    | ●                                    |
|                                                                                                                                       | Short-circuit current (Isc)   | ●                                    |
| Performance tests / Input tests @ STC (Standard Test Conditions) via SOLAR03 (Bluetooth connection, up to 100m in free field)         | I-V Curve                     | ●                                    |
|                                                                                                                                       | Outcome (OK/NO)               | ●                                    |
| PV modules database                                                                                                                   |                               | approx. 63,000                       |
| Memory                                                                                                                                |                               | 9999 tests                           |
| PC communication / data transfer port                                                                                                 |                               | USB-C and WiFi                       |
| Graphic colour touchscreen                                                                                                            |                               | 800 x 480 pxl                        |
| Screen rotation                                                                                                                       |                               | ● (manual)                           |
| Help                                                                                                                                  |                               | ●                                    |
| Key sound                                                                                                                             |                               | ●                                    |
| Battery charging                                                                                                                      |                               | ● External power supply              |
| Internal power supply                                                                                                                 | 8 x 1.5V alkaline AA or       | ●                                    |
|                                                                                                                                       | 8 x 1.2V rechargeable AA NiMH | ●                                    |
| Protection rating                                                                                                                     |                               | IP67 (case closed), IP40 (case open) |
| Auto power off                                                                                                                        |                               | 1 ÷ 10min selectable                 |

## GENERAL SPECIFICATIONS

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Dimensions (L x W x H)      | 336 x 300 x 132mm                         |
| Weight (batteries included) | 5.5 kg                                    |
| Operating temperature       | from -10°C to 50°C ; (from 14°F to 122°F) |
| Operating humidity          | <80% RH                                   |
| Battery life (0° ÷ 40°C)    | approx. 8 hours                           |



# ACCESSORIES

## STANDARD ACCESSORIES

|                                                               |                                                                                        |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------|
| KIT2PRO15                                                     | Set of 2 jack-jack cables 3m + 2 crocodile clips (red and black)                       |
| KITPVMC4150                                                   | Set of 2 adapters with MC4 compatible connector and 4mm banana pin, 3m (red and black) |
| SP-2003                                                       | Shoulder strap                                                                         |
| CF832                                                         | 32GB memory card                                                                       |
| A0061                                                         | Battery charger power supply unit 100-440VAC/15VDC, 50/60Hz                            |
| C2010                                                         | USB-A/USB-C 1.5m connection cable                                                      |
| SOLAR03                                                       | Remote unit with 1 temperature input and 3 irradiation inputs (for HT305)              |
| HT305                                                         | Photovoltaic cell for measuring solar radiation                                        |
| PT305                                                         | Temperature probe PT1000                                                               |
| M304                                                          | Mechanical inclinometer                                                                |
| SP-2002                                                       | Strap with magnetic attachment for SOLAR03                                             |
| YABAT0003000                                                  | Rechargeable battery NiMH, 1.2V, AA (10 pc)                                            |
| YABAT0004001                                                  | External battery charger                                                               |
| BACKPACK                                                      | Professional HT backpack for measuring instrument accessories                          |
| Calibration report                                            | for I-V600, SOLAR03 and HT305                                                          |
| Quick start guide                                             |                                                                                        |
| Complete user manual and management software available online |                                                                                        |

## OPTIONAL ACCESSORIES

|             |                                                 |
|-------------|-------------------------------------------------|
| HT305       | Photovoltaic cell for measuring solar radiation |
| KITK2TIPS15 | Set of 2 Black/Red leads with MC4 termination   |

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