



I-V600

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



VOLTMAG

METEL **HV01V600**

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)
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
YABAT0004001	External battery charger



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