



# PVCHECKS-ONE

ADVANCED INSTRUMENT FOR ELECTRICAL SAFETY TESTING  
AND TROUBLESHOOTING IN PV SYSTEMS UP TO 1000V/30A





CODE **HVPVCSO**N

# PVCHECKs-ONE

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- > A single, simple “GO” to run **Commissioning Tests**
- > Tests on monofacial and **bifacial** modules (also high efficiency) up to **1000V / 30A**
- > All electrical safety tests, continuity, polarity, Voc, Isc, insulation, **on active systems**
- > **Ground fault locator (GFL function)** to identify insulation problems between modules
- > **AUTOSTART/AUTOSAVE mode** to test all strings of a field switchboard in sequence.
- > **OPT function** for insulation testing on MLPE-equipped PV strings (including optimizers and RSDs), allowing measurements to be performed **without the need to disconnect the MLPE devices**

**OPT**  
FUNCTION

**GFL**  
FUNCTION

**1000V**  
**30A**

**DUAL**  
MODE  
Test

**MONO AND**  
**BIFACIALS**  
MODULES

**OK**  
CERTIFICATE OF  
CALIBRATION



**PRODUCT**  
**DATA SHEET**



# TECHNICAL DATA SHEET

## TECHNICAL SPECIFICATIONS

Measurement of open-circuit voltage Voc on PV modules and strings	1000V DC
Measurement of short-circuit current Isc on PV modules and strings	30A DC
Polarity check	●
Use of SOLAR03 remote unit with Bluetooth connection	●
Front irradiation measurement	● also with SOLAR03 remote unit and PT305 probe (optional accessories)
Direct measurement of the module temperature	● also with SOLAR03 remote unit and PT305 probe (optional accessories)
PV string/field insulation measurement with test voltages 100, 250, 500, 1000VDC	●
P.I. polarisation index measurement	●
Dielectric absorption ratio D.A.R measurement	●
GFL function to locate the position of the low-insulation module within a string	●
OPT function for insulation testing on PV strings in the presence of MLPE devices, such as optimizers and RSDs, without the need to disconnect them from the modules	●
Protective conductor continuity testing with test current 200mA	●
Measurement category	CAT III 1000V AC, CAT III 1000VDC Max 1000VAC, 1000VDC between inputs
Backlit LCD display	●
Internal memory	Max 999 tests
Integrated Wi-Fi connection for PC connectivity	●
Optical/USB serial port for connection with PC	●
Management of customisable internal PV module database	● (Max 64 modules)
Auto power off	●
Online help on display	●

## GENERAL SPECIFICATIONS

Dimensions (L x W x H)	235 x165 x 75mm
Weight (batteries included)	1.2 kg
Operating temperature	from -10°C to 50°C
Operating humidity	<80% RH
Protection rating	IP40
Power supply	6x1.5V type AA alkaline batteries or 6x1.2V type AA rechargeable NiMH batteries

(\*) This characteristic is only available for certain models

# ACCESSORIES

## STANDARD ACCESSORIES

KITGSC4	Set of 4 cables banana 4mm, 2m + 4 alligator clips
KITPCMC4	Set of 2 adapters with connector compliance MC4 and single wire
C2006-0	Optical/USB connection cable
YABAT0007HTO	Alkaline battery 1.5V, type AA LR06 (6 pcs)
VA507	Hard carrying case
SP-5100	Set of bells for slinging the instrument over one's shoulder
Quick start guide	
Calibration report	
Complete user manual and management software available online	

## OPTIONAL ACCESSORIES

SOLAR03	Remote unit
PT305	PT1000 probe for cell temperature measurement
HT305	Reference cell for irradiance measurement with set of fixed screws
M304	Mechanical inclinometer for detection of sun incidence angle
SP-2002	Strap with magnetic termination for SOLAR03
KITPVPROEXT20	Set of 2 cables banana male/banana female 4mm, Red/Black, 20m
KIT2TIPS15	Set of 2 cables with test leads/MC4, CAT III 1500V, 25cm, Red/Black
YABAT0003000	Rechargeable battery NiMH, 1.2V, type AA
YABAT0004001	External charger
KITBIFACIALONE	2 × HT305, reference cells for irradiance measurement, and SOLAR03, remote unit for measurement of irradiance, temperature and inclination of PV modules

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