

Installation Tester for photovoltaic systems BENNING PV 1-1, BENNING PV 2

commissioning tests, periodic inspection and curve measurement of PV systems

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BENNING PV 1-1, PV 2

installation tester for photovoltaic systems for testing grid-connected PV systems

- tests in compliance with DIN EN 62446 standard
- easy – operation by means of keys with AUTO test procedure
- quick – testing within a few seconds only
- safe – contacting by means of PV connectors

Features

- automatic test procedure for Uo/c, Is/c and Riso
- insulating resistance with a testing voltage of 250 V, 500 V and 1000 V
- memory of measured values with real-time clock (date/time stamp)
- wireless connection BENNING SUN 2 (insolation/ temperature)
- USB interface and download software BENNING SOLAR Datalogger
- delivery including calibration certificate

BENNING PV 2

installation tester for photovoltaic systems and curve tracer

- testing in compliance with DIN EN 62446 and DIN EN 61829 for documenting the performance data
- measurement of the current-voltage characteristic (I-V) and the power characteristic (P-V)
- indication of Umpp, Impp and filling factor (FF)

Features

- automatic test procedures for curve measurement and Riso testing
- separate Riso measurement via 4 mm measuring leads
- optional PC software BENNING SOLAR Manager for the creation of test reports and documentation of characteristics
- free app BENNING PV Link (requires Android device with NFC)



Installation Tester for PV systems

	BENNING PV 1-1	BENNING PV 2
display	graphic display (illuminated)	
protective conductor resistance (R _{PE})	0.05 Ω – 199 Ω	
open-circuit voltage with polarity (Uo/c)	5 V – 1000 V DC	
short-circuit current (Is/c)	0.5 A – 15 A DC	
insulating resistance (R _{iso})	0.05 MΩ – 199 MΩ (250/500/1000 V)	
insulating resistance (2-pin)	-	0.05 MΩ – 300 MΩ
AUTO measurement 1	+/-, Uo/s, Is/c, Riso	+/-, Uo/s, Is/c, Riso
AUTO measurement 2	-	characteristic (I-V, P-V)
AUTO measurement 3	-	measurement 1 + 2
DC string current/AC current	0.2 A – 40 A DC/AC (by means of BENNING CC 3)	
insolation	100 W/m² – 1250 W/m² by (means of BENNING SUN 2)	
PV module/ambient temperature	-30 °C – +125 °C (by means of BENNING SUN 2)	
voltage (2-pin)	30 V – 440 V AC/DC	
measured value memory	200	999
interfaces	USB/Funk	USB/Funk/NFC
dimensions/weight	270 x 115 x 55 mm/ca. 2.6 kg	
item no.	050421	050422

Scope of delivery

	BENNING PV 1-1	BENNING PV 2
scope of delivery	carrying case, measuring/MC4/Sunclix leads, batteries, alligator clips, download software (CD), micro USB cable, calibration certificate	
	-	demo version of PC software BENNING SOLAR Manager (CD)

Optional accessories

	item No.
PC software BENNING SOLAR Manager license key for a single-user license	050423
Bag with neck strap for PV suitable for BENNING PV 1-1/PV 2	050426

See page 34 for further accessories

Measuring range indications refer to ranges from highest resolution to the final measuring range value.