

Part 2 – Inspection, Test and Commissioning Report

Test Report for grid-connected photovoltaic according to EN 62446, Annex A	: systems
Customer: Customer Name:	
Customer Address:	
Customer Eircode:	
Installation Contractor: Company Name:	
Company Representative:	
Company Address:	
PB System Description: PV Module: Manufacturer: PV Module Performance: Short Circuit Current Isc (A): Open Circuit Voltage Voc (V):	Module Type:
PV Inverters: Manufacturer: AC Nominal Power (W): AC Maximum Power (W): Test Date: Next Test Date:	Inverter Type: Inverter Quantity: DC Maximum Power (W): Test Reason: Initial inspection Retesting
Electrical Certs: Safe Electric Cert Number:	Test Record Sheet Cert Number:
DC Test Results: RE: Loop: RCDx1:	RCDx5:
Design, construction, inspection and testing I/we, the responsible person(s) for the design, const system (as specified by the signature(s)), details of v tested the design and structure with suitable skill ar I/we am/are responsible, were carried out to the be Test Result:	vhich are described above, have inspected and nd care and confirm that the said words, for which
No defects were found	Defects were found
The Photovoltaic system complies with the	e standards of electrical engineering
Signature/Tester:	Date:

Remarks:

-	on test report g to EN 62446, Annex B
Testing: Test Date: Inspected	Signature/Tester: circuits (fill out one sheet for large systems and for separate inspections per inspection):
Design a	nd installation of the PV generator
	DC system was generally designed, selected and set up in accordance with the ents in DIN VDE 0100 (IEC 60364) and in particular in accordance with DIN VDE 0100-712 (IEC 12)
The [DC components were measured for DC operation
The [OC components are rated for the maximum current and maximum voltage
Prote	ection is provided by application of class II or equivalent insulation on the DC side
	rand cables, PV generator cables and PV DC main cables have been selected and ed so that the risk of earth faults and short circuits is reduced to a minimum (DIN VDE 0100- 522.8.1)
	wiring system has been selected and constructed so that it can withstand expected external ences such as wind, ice temperature and solar radiation (DIN VDE 0100-712. 522.8.3)
AC ai	nd DC cables are physically separated
	ems without strand overcurrent protective device: Strand cables are designed so that they ake up the highest combined leakage current of parallel lines (DIN VDE 0100-712 para.433)
correctly a	ems with strand overcurrent protective device: Overcurrent protective devices are set according to local rules or according to the PV module manufacturer's instruction (DIN VDE para. 433.2)
Dara. 536.2	e are DC load break switches installed on the DC side of the inverter (DIN VDE 0100-712
PV Syste	m/overvoltage protection/electric shock
🔄 The i	nverter has a simple separation between the AC side and the DC side
	natively: A residual device is installed in the circuit and corresponds to a type B RCD (DIN 712 para. 413.1.1.1.2)
The a	area of wiring loops was kept as small as possible (DIN VDE 0100-712, para. 54)

If equipotential bonding conductors are installed, they run in parallel and in as close contact possible to the PV DC cables	as
Special factors of PV system – AC circuit	
Devices for disconnecting the inverter are provided on the AC side	
Separating and switching devices are connected so that the PV installation in connected on t "load"side and the public supply on the "sources" side (DIN VDE 0100-712 par, 536.2.2.1)	:he
Protection settings of the inverter are programmed according to local regulations	
Marking and labelling of the PV system	
All circuits, protection devices, switches and terminals have appropriate markings	
All DC connection boxes (PV sub-generator connection box and PV generator connection bo bear a warning that the active parts present in the connection box are supplied by a PV generator may still be live after the shutdown of PV inverters and public supply	
The AC main switch has a clear inscription	
Warnings are present for the double supply at the point of interconnection	
The protection settings of the inverter and details of the installation are provided on site	
The procedures for emergency shutdown are provided on site	
All signs and markings are suitable and permanently attached.	
General (mechanical) installation of the PV system	
Ventilation is provided behind the PV generator to prevent overheating/reduce the fire risk	
The frame and materials are properly attached and stable; the roof fasteners are weather-resistant	
The cable routing is weather-resistant	
Notes:	
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Test Report for grid-connected photovoltaic systems

according to EN 62446, Annex C

Test

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String		1	2	3
PV generator	Module			
	Quantity			
PV generator parameters	Voc (STC)			
	lsc (STC)			
	Туре			
Protection device (branch fuse)	Rated Value (A)			
	DC rating (A)			
	Capacity (kA)			
Wiring	Туре			
	Phase conductor (mm2)			

	Earth conductor (mm2)		
Testing and Measurement of	Voc (V)		
the strand	lsc (A)		
	Irradiance		
Polarity monitoring			
Array Insulation Resistance	Test Voltage (V)		
	Pos – Earth (MΩ)		
	Neg – Earth (Μ Ω)		
Earth continuity (where fitted)			
Switchgear functioning			
correctly			
Inverter Make/Model			
Inverter Serial Number			
Inverter functioning correctly			
Loss of mains test			

Notes:
