



GRIDFIT²⁵⁰

AC-INVERTER





GRIDFIT250 A VERSATILE INVERTER

The Exendis Gridfit 250 is a grid-connected inverter which combines safety with high quality and reliability. The Gridfit 250 is suitable for use with solar modules of 72 cells or 2 x 36 cells in series, and can be applied over a wide power range from 140 to 250 Wp.



SAFETY

The Gridfit 250 is KEMA approved and meets the requirements of energy suppliers. An safety provision is the Ultra-Anti-Islanding concept. This provision makes sure that the inverter is switched off immediately in the event of a power cut. The inverter also switches off immediately in case of over or under voltage or excessively high or low frequency of the supply system.



QUALITY

Many years of research and development were undertaken before the Gridfit 250 went into production. The initial design concept came from the University of Paderborn. The design has taken into account differences in weather conditions, differences in (polluted) electricity supply systems and the varying requirements of the users. The product concept has been carefully translated into an inverter which does not just meet the required quality standards in the laboratory but also keeps giving the best possible performance under every type of condition in the field. At ECN various investigations were carried out of the harmonic interaction between inverters used

in parallel and the results from these studies were incorporated into the Gridfit 250. The result is a high-quality AC inverter.

RELIABILITY

The solid appearance of the Gridfit 250 reflects the hard-wearing and reliable nature of this inverter. To ensure resistance to weather influences a safe high-quality DC connection was chosen. The Gridfit 250 has been tested extensively and tried out under the most strenuous conditions and without exception has emerged with a vote of reliability. This reliability is also reflected in the guarantee period which can be extended to as much as 10 years!

INSTALLATION

The Gridfit 250 is suitable for indoor as well as outdoor installation. On the AC side a H05RN-F cable is used which is weather and temperature resistant and is available on request with a Class II mains plug. On the DC side the inverter is connected by means of high-quality PV Multi-Contact plugs. The mounting brackets, which can be turned in almost any position, can be moved grooves at the side of the inverter. This makes a modular structure possible, for instance, with 4 inverters in a row. If required, the inverter can be connected to the standard three-phase 400 Volt grid.



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TECHNICAL SPECIFICATIONS

Input:

Solar generator	till 250 Wp
Nominal voltage	34 VDC 1x34 V MPP or 2 x 34 V MPP parallel or 2 x 17 V MPP serial
Current range	0 - 7 Adc.
Nominal power	6,6 Adc.
Mpvt voltage range	27 to 50 VDC
Initial peak voltage	27 VDC
Maximum voltage	50 VDC
Minimum voltage	0,5 watt

Output:

Maximum output capacity	200 Watt
Nominal voltage	230 VAC (-10% +5%)
Current range	0 to 1,1 Amp
Nominal power	0,87 Amp
Frequency	50 Hz (+/- 1%)
Power factor cos.phi	1
MPP efficiency	>98%
European efficiency	>90%
Stand-by power	0,008 W

Miscellaneous:

Dimensions	143 x 210 x 50 mm
Weight	1500 g
Safety tests	(EN 60950, KEMA)
EMC	EN 5081 and EN 50082
Insulation rating	2
Ambient temperature range	-25 to + 60 degrees C
Protection class	IP 65
Main connector	MC contact
Communication	Quasi Powerline module by net and interface pc
Expected life span	20 years

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THE ADVANTAGES:

- a high-quality inverter for a modest price
- suitable for inside or outside
- simple to connect
- suitable for wall-mounting
- suitable for parallel application
- suitable for a standard three phase 400 Volt system

- uses the latest and most advanced SMD technology
- uses optical signalling
- has class II galvanic separation between the AC and the DC side
- very fast maximum power point tracker
- extensively tried and tested; meets all required standards (ECN / KEMA)

- sturdy impact-proof housing
- components meet the most stringent standards
- very long life