



CONERGY

Integrated connection box | Technical data

Conergy IPG easyconnect

On the basis of years of experience in the installation of PV systems, Conergy has developed the Conergy IPG easyconnect, a new, integrated connection box. The bundling of PV system components in the Conergy IPG easyconnect is new and unique.

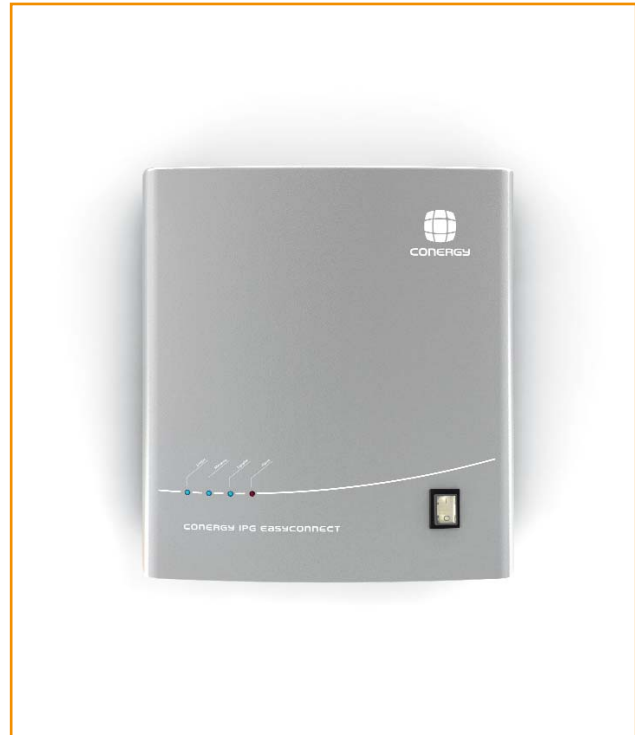
The Conergy IPG easyconnect is a connection box enhancement for single-phase, grid-connected inverters. It combines a multitude of important additional PV system components that previously needed to be configured in a time-consuming manner and individually installed in the system. Prefabricated plugs guarantee simple, rapid and error-free installation.

Electronic disconnection

The Conergy IPG easyconnect already contains the external DC disconnect required by the new IEC 60364-7-712 regulations. This can be both manually and electronically switched. Hermetically sealed relays form the heart of the DC disconnect. This innovative electronic disconnect provides significant advantages, since the relays automatically switch off and disconnect the PV generator from the inverter if a fault occurs in the system.

Convenient and safe installation

All necessary cables are prefabricated with connectors and must only be plugged in (MC4 plugs for the PV strings). The cable connections to the inverter are designed to be 5 m. Even in the case of eventual faulty installation (e.g. reverse polarity), the Conergy IPG easyconnect reliably protects the inverter through the electronic relays. In almost any environment (protection type IP 65), and over a temperature range of -10 to +60 °C, the Conergy IPG easyconnect can be installed in a matter of minutes using the wall mounting bracket provided.



Category B and C lightning protection

The integrated category B and C lightning protection traps overvoltages caused by indirect lightning strikes. This provides the best possible protection from outside influences for the inverter. Since the overvoltage protection is adjusted to suit the Conergy IPG series of string inverters, no extra layout planning is necessary.

Optional system monitoring

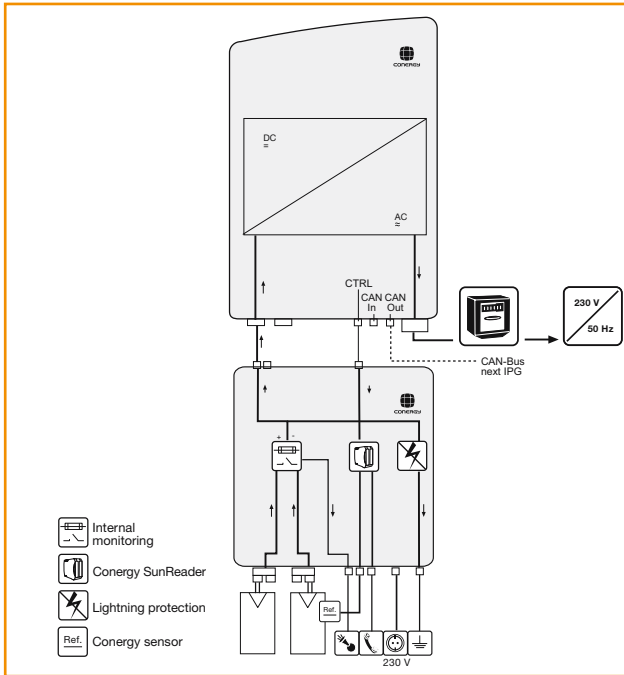
The Conergy IPG easyconnect can be enhanced with an optional, pre-installed Conergy SunReader. The Internet-based system monitoring system serves as a „bodyguard“ for your system and automatically recognises potential faults in the PV system. Messages can be sent to the system operator via e-mail or SMS, e.g. relating to performance deviations.



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Interconnection of a Conergy IPG easyconnect with Conergy IPG series string inverters

Technical data Conergy IPG easyconnect

Modem	–	Analogue	ISDN	GSM
SunReader	–	Integrated	Integrated	Integrated
Max. DC voltage	800 V	800 V	800 V	800 V
Nom. DC current	20 A	20 A	20 A	20 A
Protection type	IP 65	IP 65	IP 65	IP 65
Number of strings	2, expandable to any number with Y-branches			
Ambient temperature	-10 to +60 °C	-10 to +60 °C	-10 to +60 °C	-10 to +60 °C
Max. insulation voltage	2,000 V	2,000 V	2,000 V	2,000 V
Type of lightning protection	B and C, temperature-monitored			
Disconnect function	Manual, automatic, autom. night-time switching			
Fuse functions				
Inverter protection	Overvoltage switch-off, when used with Conergy IPG series string inverters, switch-off also occurs in the case of system faults			
Overcurrent threshold	30 A	30 A	30 A	30 A
Reverse current threshold	-5 A	-5 A	-5 A	-5 A
Reverse polarity protection	Yes, electronically locked against switch-on			
Power monitoring	No	Yes, with Conergy SunReader		
Cable lengths	Retractable up to 5 m	Retractable up to 5 m	Retractable up to 5 m	Retractable up to 5 m

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