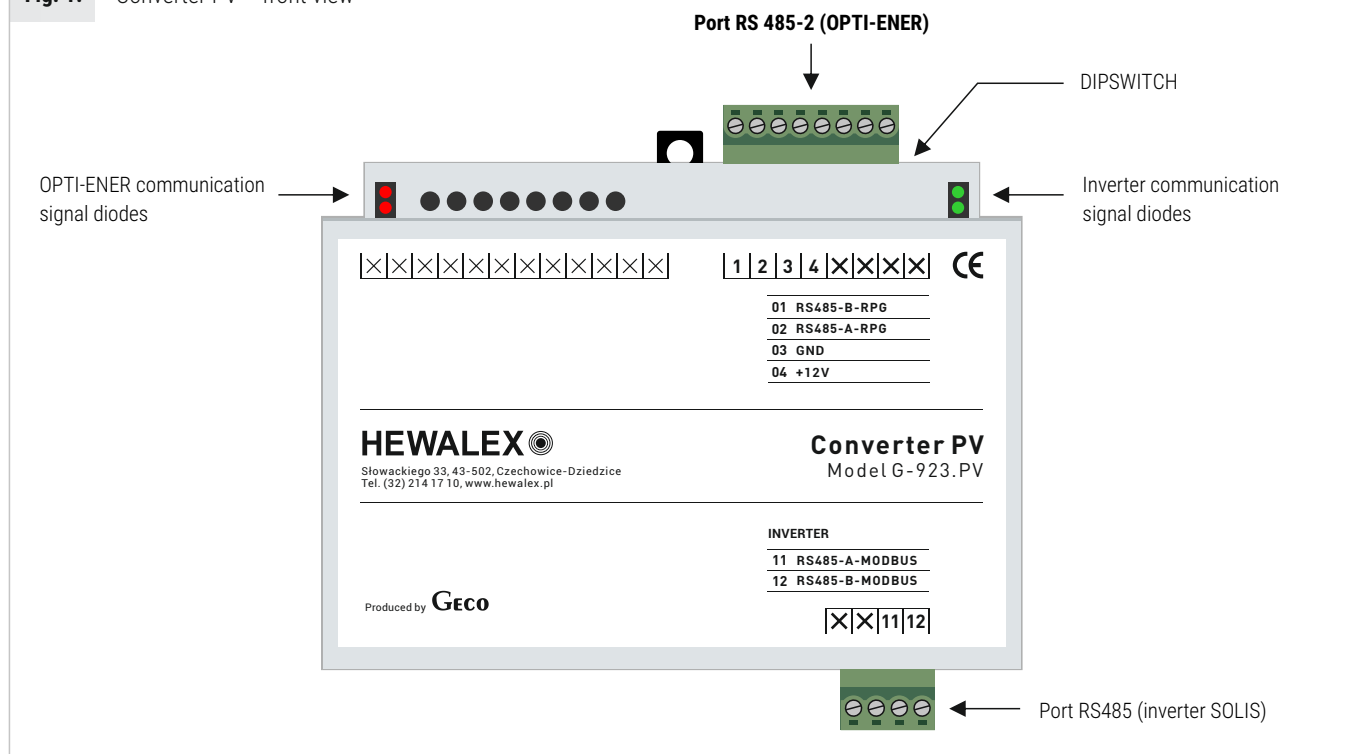


Converter PV (G932) is a optional device of OPTI-ENER system that enables a communication with SOLIS inverter. Due to inverter communication it is possible to read measured parameters like AC/DC values. Controller also enables to remote control of inverter power production – setting the limits.

Converter PV should be connected with relevant inputs/outputs of OPTI-ENER controller and SOLIS inverter according to following scheme:

Fig. 1. Converter PV – front view



Converter PV has been equipped with 4 signal diodes.

Red 1	<p>Informs about reception of data from OPTI-ENER controller. If the diode is off it means that Converter PV was not installed properly – please repeat pairing process.</p>	Green 1	<p>Informs about sending data to the SOLIS inverter.</p>
Red 2	<p>Informs about correct port RS485-2 connection. If the diode is off it means that communication wires were not installed properly – please recheck the connection.</p>	Green 2	<p>Informs about reception data from SOLIS inverter. If the diode is off it means that communication plug at inverter or wires at port RS485 (inverter SOLIS) were not installed properly – please recheck the connection.</p>

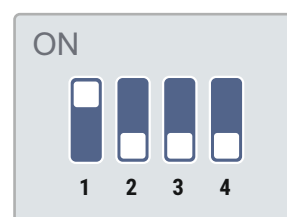
Converter PV pairing guide

Before initial launch please make sure to set up a DIPSWITCH 1 in „ON” position (Fig.2.). Provide power supply at port RS485-2 (OPTI-ENER). Afterwards all signal diodes should turn on. Thereafter set up a DIPSWITCH 1 in „OFF” position. Converter PV is now ready to be added to OPTI-ENER subnetwork. Last step is to push and hold the B2 button at OPTI-ENER for at least 3 seconds.

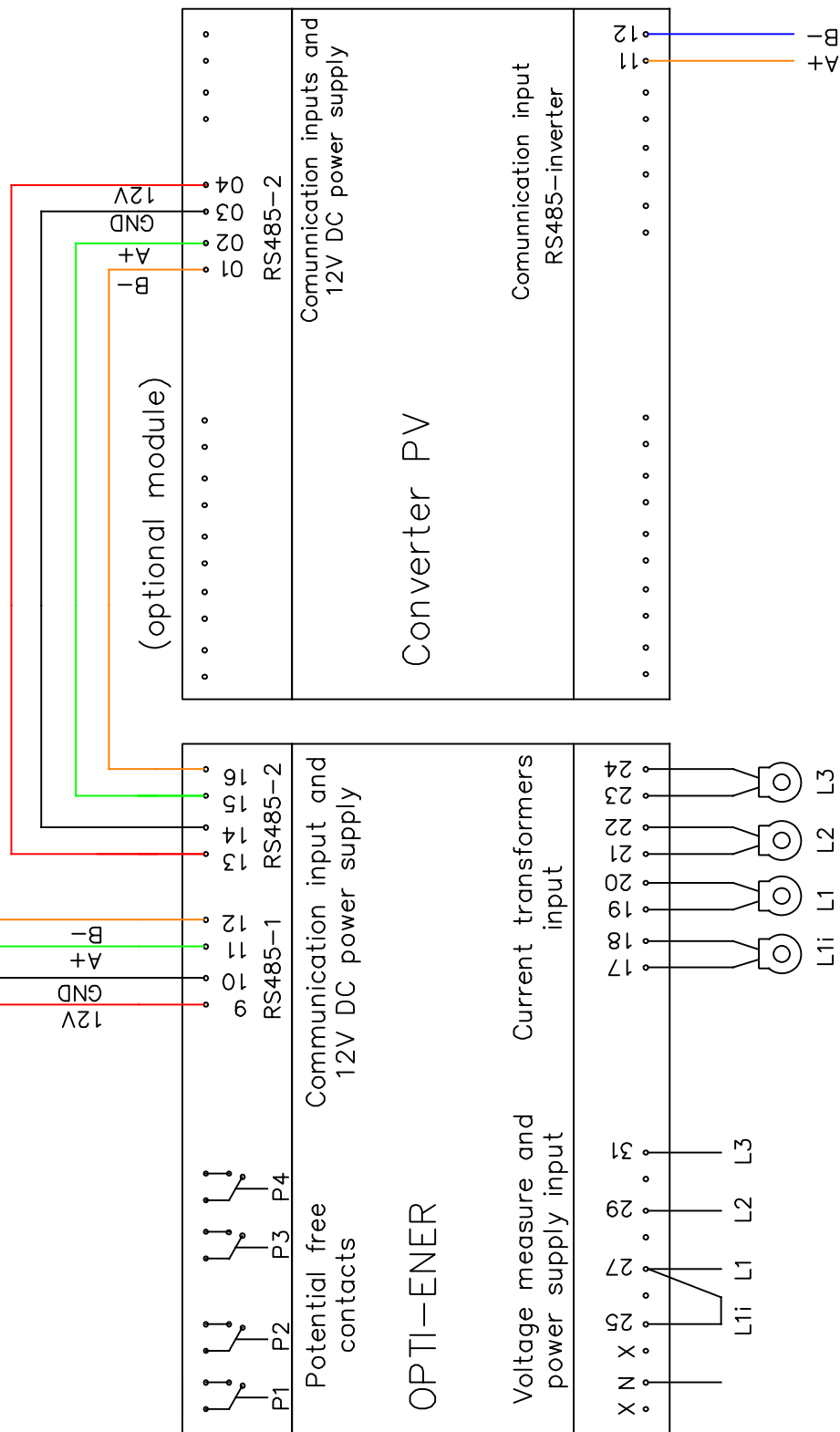
Right connection will be signed by diodes. Additionally Converter configuration will appear at opti-ener.com. Setting range of blocker is from -10 kW to 10 kW.

CAUTION: If your OPTI-ENER system contains two optional modules Converter PV and OPTI-TEMP than please make sure to connect the **OPTI-TEMP module first**.

Fig. 2. DIPSWITCH 1 position during initial launch



Uz+ Uz- A+ B-
EKKOLAN Module
G927



Inverter PV – fabric plug

2. Wireless connection.

The diagram illustrates a wireless connection between an OPTI-ENER module and a Converter PV module. The OPTI-ENER module includes sections for 'Potential free contacts' (P1, P2, P3, P4), 'Communication input and 12V DC power supply' (RS485-1, RS485-2), 'Voltage measure and power supply input' (X, N, L1, L2, L3), and 'Current transformers input' (L1, L2, L3). It also features an 'EKOLAN Module G927' with terminals U2+, U2-, A+, and B-. The Converter PV module includes a 'Communication input and 12V DC power supply' (RS485-2), a 'Communication input RS485-inverter', and an 'Inverter PV - fabric plug' with terminals 11, 12, and A+B-. Two 'Radio G931' modules act as intermediaries, connected to the OPTI-ENER module via RS485-1 and RS485-2, and to the Converter PV module via RS485-2. The connection is labeled '2. Wireless connection.'.

A symbol found on the product or its packaging points to the necessity of separate collection of used electronic equipment. This means that the product must not be thrown away together with other household waste. Correct disposal of old and used electrical equipment may help to avoid potential damage to the environment and human health. A user who should give the used equipment to a collector should be responsible for separate collection of used electronic equipment.



Device is not destined to be used by children and people with limited physical abilities, physical feeling or psychical disorders. It should not also be used by people who do not have proper experience or knowledge unless they were instructed or supervised by qualified personnel.

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