

**Switchover compact
backup system and island mode**

toscano

COMBI-MAX / COMBI-PRO-MAX



According to forthcoming ITCs 40/53

vigivolt

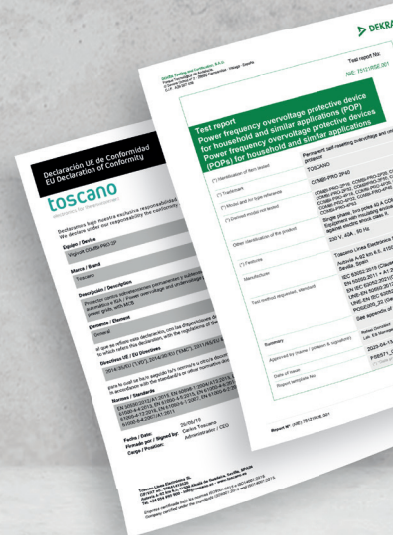
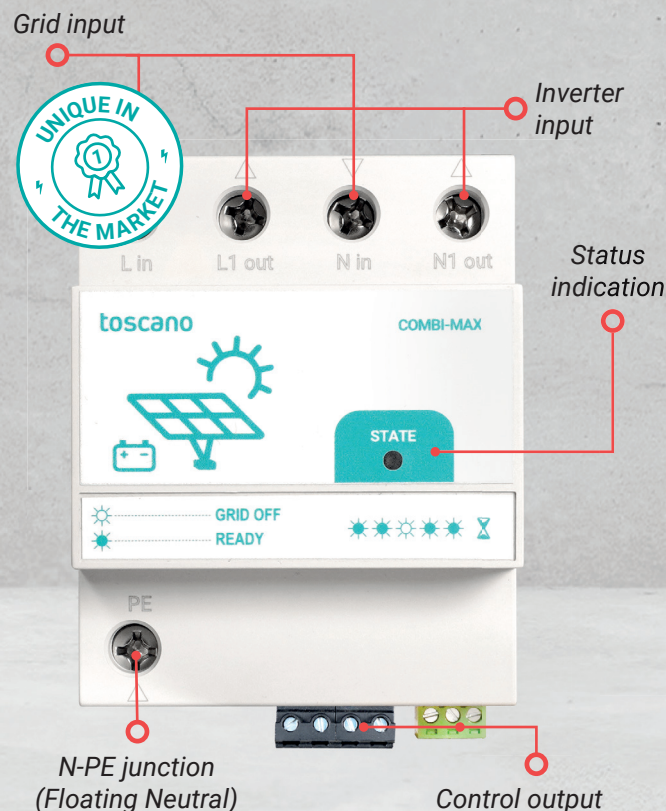


COMBI-MAX

COMBI-MAX is a device that protects people and the installation facing an absence of mains voltage, in photovoltaic installations where operation in Backup mode is required.

Its operation in **island mode** disconnects the inverter from the mains and only allows power to be supplied to loads operating in a separate mode, **total Backup** or **Backup critical loads**.

Reclosing to the grid will occur only after the mains voltage remains within normal range for at least three minutes.



All our equipment is 100% tested and certified by external lab

COMBI-MAX characteristics



Double control output

Backup mode order and confirmation



Compatible

- Fronius GEN24
- Huawei SUN2000
- * Other inverters on request.

Common characteristics



Activation Backup mode

Output activation backup mode (total/critical loads) to inverter



Union Neutral - Earth

Prevents floating neutral as indicated by ITC-BT-08



Island operation

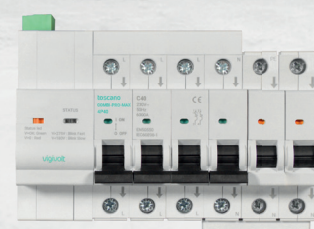
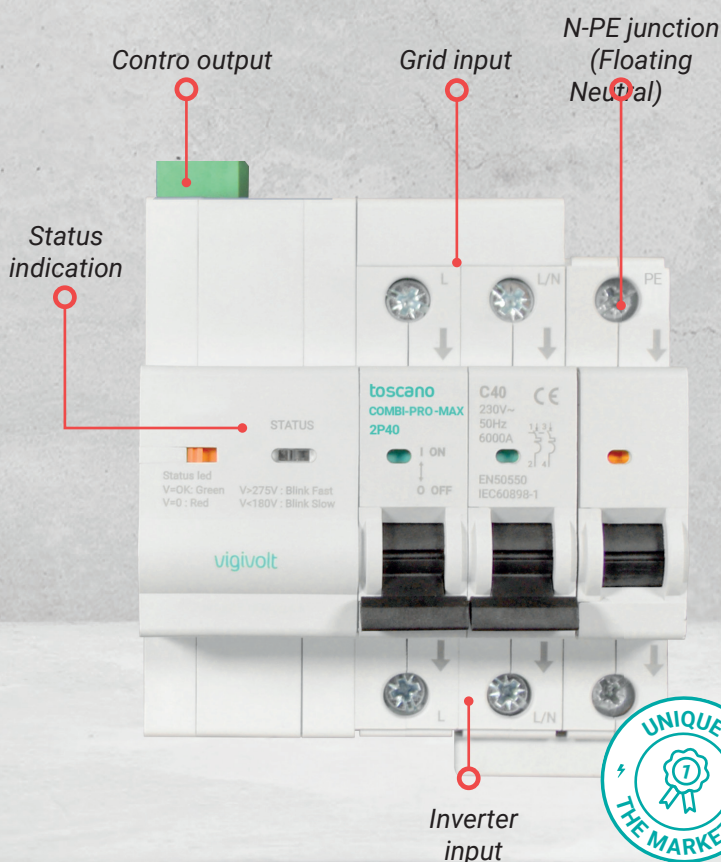
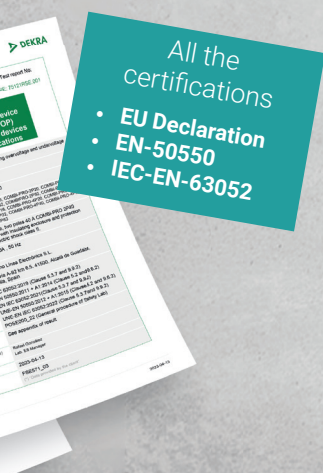
Disconnects the self-consumption installation from the mains



COMBI-PRO-MAX

COMBI-PRO-MAX has the same features and functionalities as COMBI-MAX but with the difference that it integrates an **IGA of up to 63 A** (see ratings) and a **permanent surge protector with automatic reconnection**.

Thanks to these features we avoid placing a surge protector upstream of the equipment and eliminate an element in the switchboard. It is the perfect equipment to place at the **head of the general switchboard** of a home with a photovoltaic self-consumption installation.



Available in three-phase

COMBI-PRO-MAX characteristics



Circuit breaker

Magneto-thermal protection



Overvoltage

Integrated permanent protection according to UNE-63052/50550



Compatible

• Huawei SUN2000
* Other inverters on request.



Timing

Disconnection and connection of line in island/backup mode



Automatic reclosing

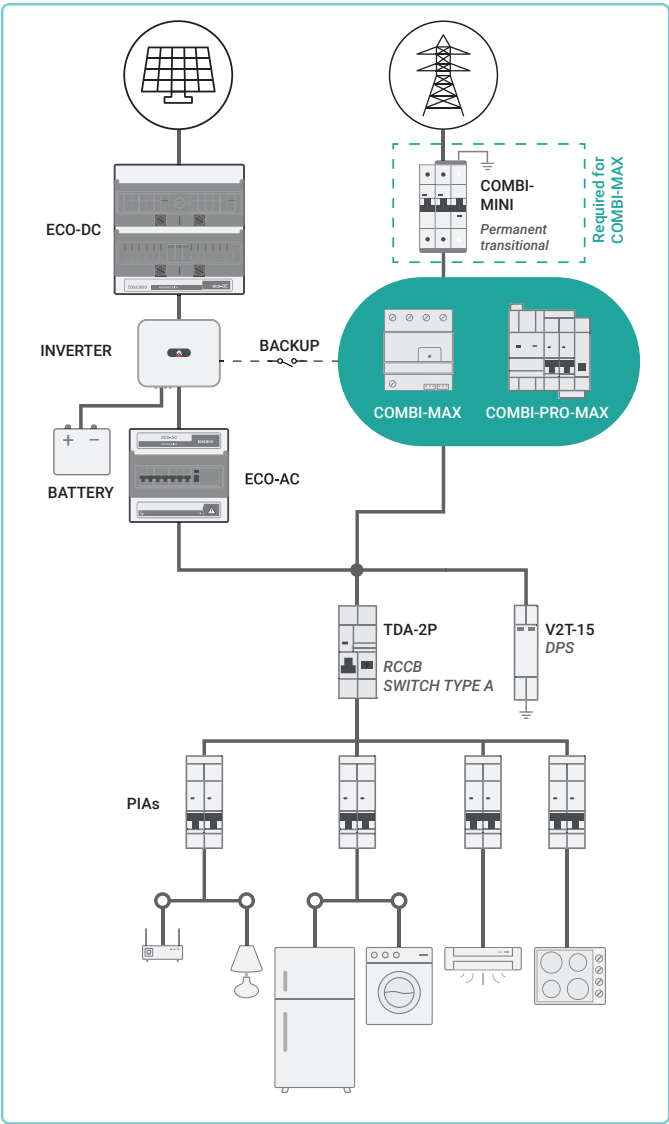
Self-resetting permanent surge protection according to EN-50550/IEC-63052



No meter required

The team itself constantly monitors the tension

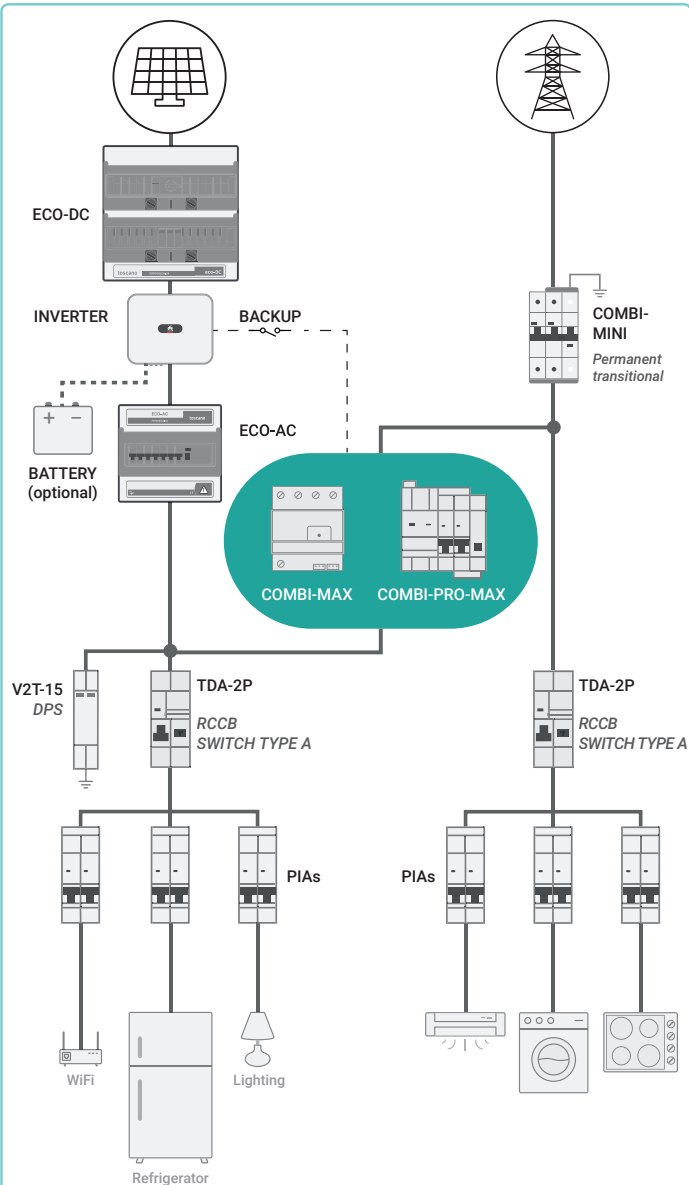
TOTAL BACKUP



HOW DOES IT WORK?

- 1 Service anomaly**
Detects a service anomaly in the main power grid.
- 2 Disconnection from the grid**
Disconnects the installation from the mains electricity. **ISLAND MODE.**
- 3 Backup mode**
Activates the **BACKUP MODE** of the inverter, making it supply all power to the installation.
- 4 Reconnection to the grid**
When the mains supply is within normal values, automatically disables the **BACKUP MODE** of the inverter and reconnects the installation to the mains.

BACKUP CRITICAL LOADS



CRITICAL LOADS

OTHER LOADS

Models

Codes	References	Intensity
10004921	COMBI-PRO-MAX-2P25	2 x 25A
10004922	COMBI-PRO-MAX-2P32	2 x 32A
10004923	COMBI-PRO-MAX-2P40	2 x 40A
10004943	COMBI-PRO-MAX-4P25	4 x 25A
10004944	COMBI-PRO-MAX-4P32	4 x 32A
10004945	COMBI-PRO-MAX-4P40	4 x 40A

* Other intensities on request.

Codes	References	Intensity
10005140	COMBI-MAX	2 x 50A

*Preview version: We reserve the right to modify this information without notice.