

# Switchover compact backup system

COMBI-MAX

toscano



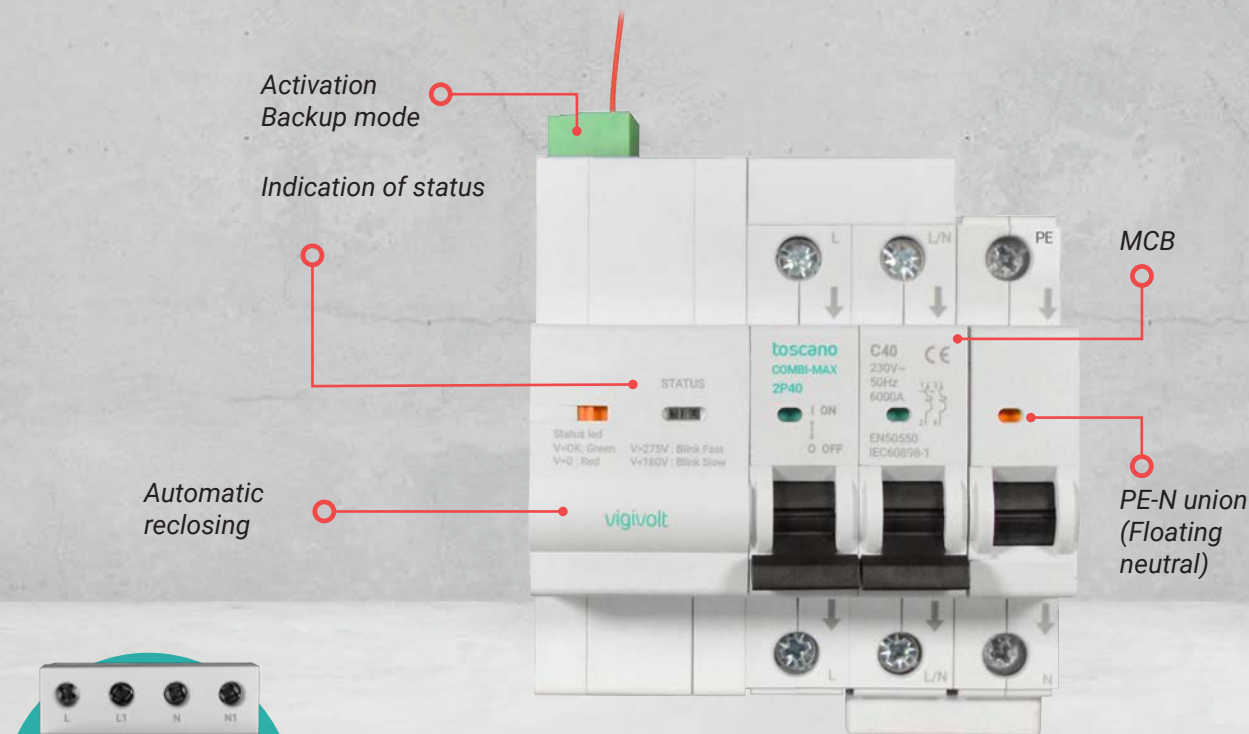
vigivolt

# 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.



Also available **BACKUP-MAX** with dual control output.



### Activation Backup mode

Output activation backup mode (total/critical loads) to inverter according to **ITC-BT-40**



### Union Neutral - Earth

Prevents floating neutral as indicated by **ITC-BT-40** and **ITC-BT-08**



### Island operation

Disconnects the self-consumption installation from the mains as indicated by **ITC-BT-40**



### Automatic reclosing

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



### Timing

Disconnection and connection of line in island/backup mode according to **ITC-BT-40**

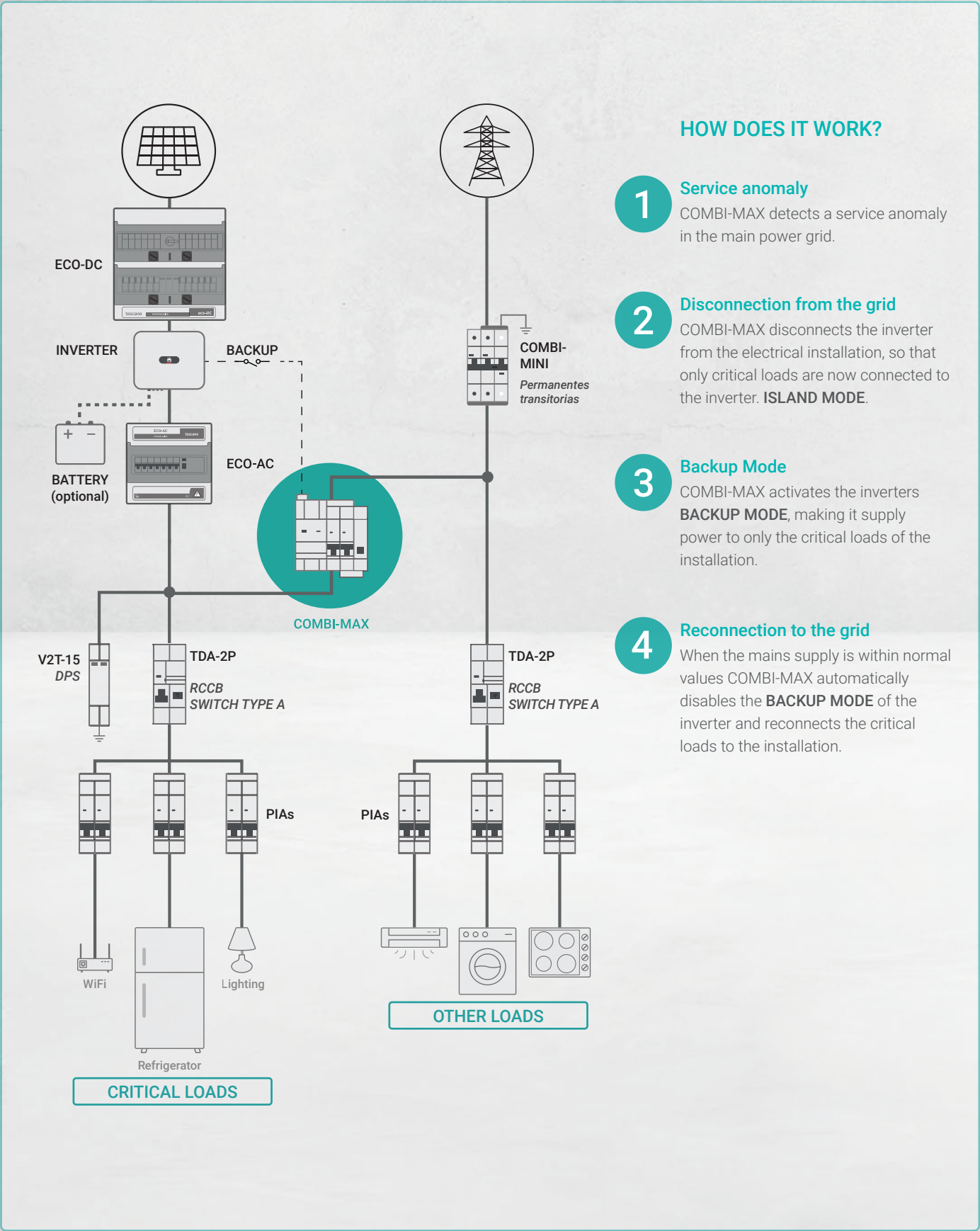


### Circuit breaker

Magnetothermal protection

# BACKUP CRITICAL LOADS

With this system, the backup mode of the inverter will supply power exclusively to critical loads.



# TOTAL BACKUP

With this system, the inverter's backup mode will supply power to all connected equipment.

## HOW DOES IT WORK?

1

### Service anomaly

COMBI-MAX detects a service anomaly in the main power grid.

2

### Disconnection from the grid

COMBI-MAX disconnects the installation from the mains electricity. **ISLAND MODE**.

3

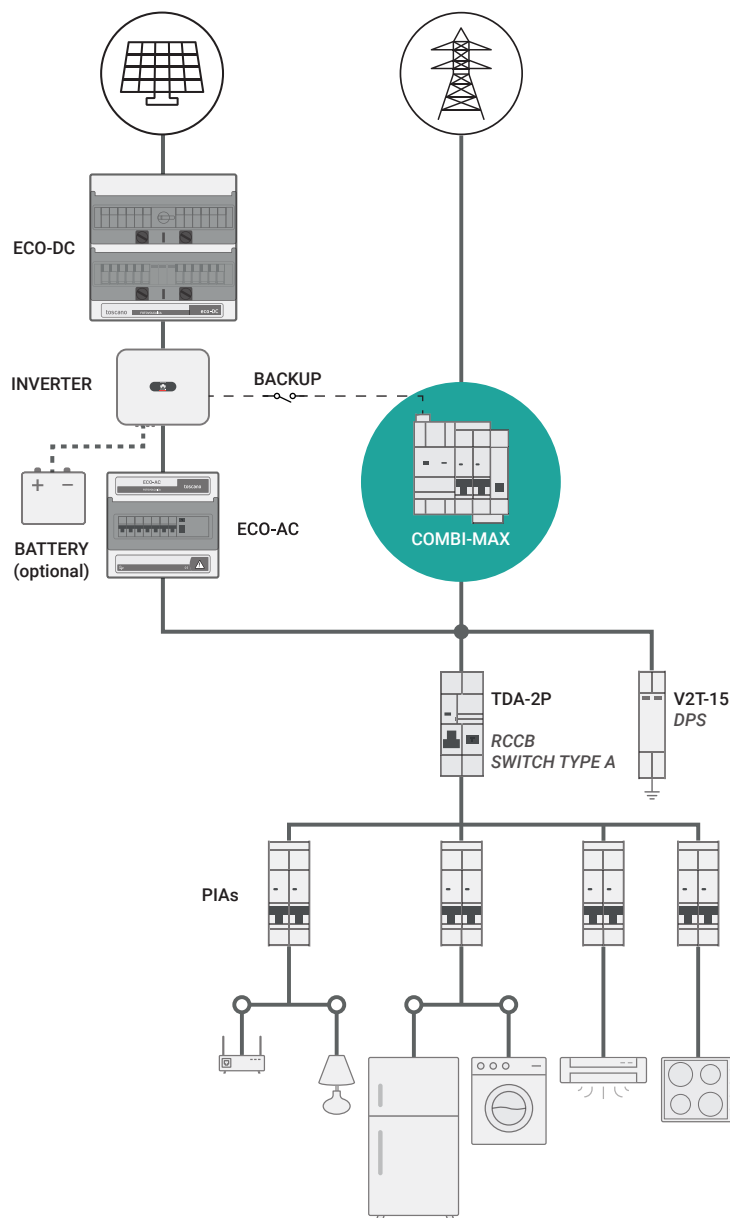
### Backup Mode

COMBI-MAX 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, COMBI-MAX automatically disables the **BACKUP MODE** of the inverter and reconnects the installation to the mains.



## Models

Codes	References	Intensity
10004919	COMBI-MAX-2P16	2 x 16A
10004920	COMBI-MAX-2P20	2 x 20A
10004921	COMBI-MAX-2P25	2 x 25A
10004922	COMBI-MAX-2P32	2 x 32A
10004923	COMBI-MAX-2P40	2 x 40A
10004924	COMBI-MAX-2P50	2 x 50A
10004925	COMBI-MAX-2P63	2 x 63A

Codes	References	Intensity
10004941	COMBI-MAX-4P16	4 x 16A
10004942	COMBI-MAX-4P20	4 x 20A
10004943	COMBI-MAX-4P25	4 x 25A
10004944	COMBI-MAX-4P32	4 x 32A
10004945	COMBI-MAX-4P40	4 x 40A
10004946	COMBI-MAX-4P50	4 x 50A
10004947	COMBI-MAX-4P63	4 x 63A



For more  
information  
visit:  
[www.toscano.es](http://www.toscano.es)

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