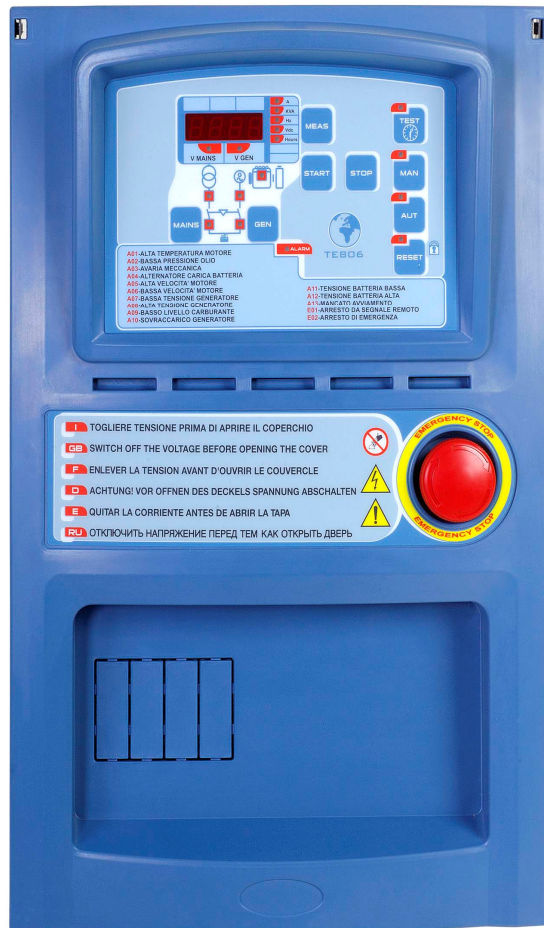


# BACK-UP GENERATING SETS EQUIPPED WITH AUTOMATIC START-UP UNIT [ R05a ]

## Operation of the R05a automatic unit



### R05a automatic unit

This unit is fully configured in the factory with the back-up generating set. To use this generating set, users simply have to connect the unit and press the "Automatic" button

- ✓ Easy to use
- ✓ Easy to start up
- ✓ User-friendly / Practical
- ✓ A unit that matches all configurations



Concept

## Operation of the R05a automatic unit

### Generating sets concerned:

SD 6000 E-2 /TE-2

DX 4000 E

DX 6000 E /TE

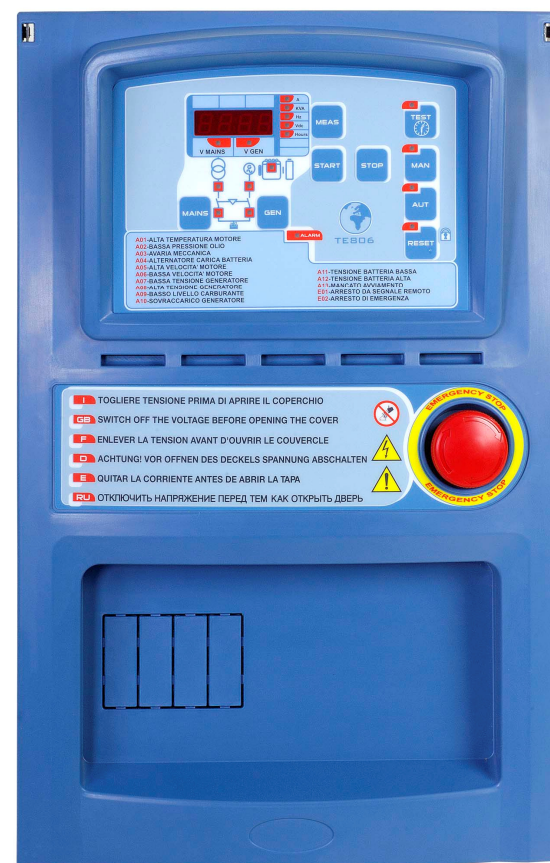
DX 10015 TE

SH 6000 E-2

SH 7500 TE-2

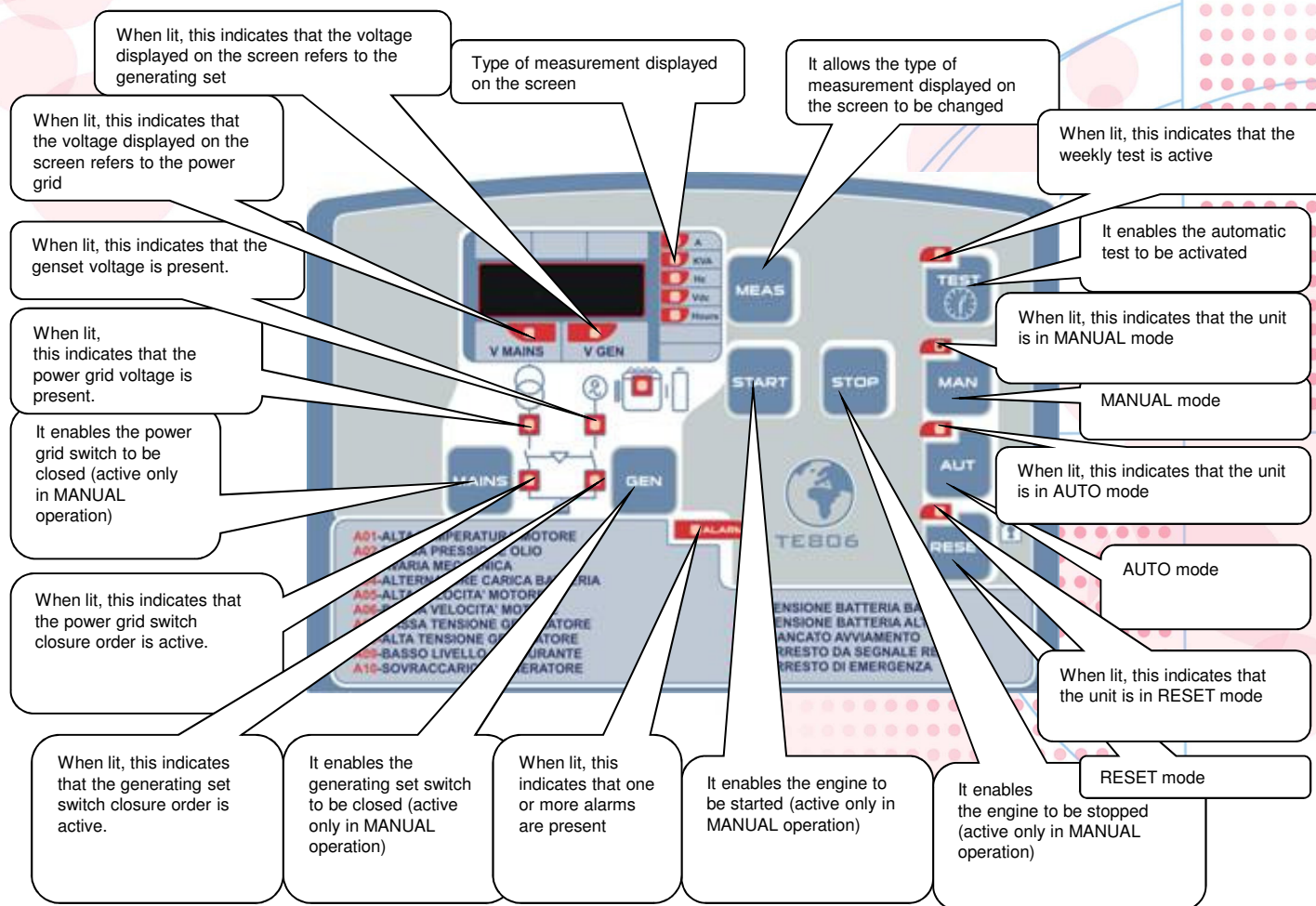
SH 10000 E

SH 15000 TE

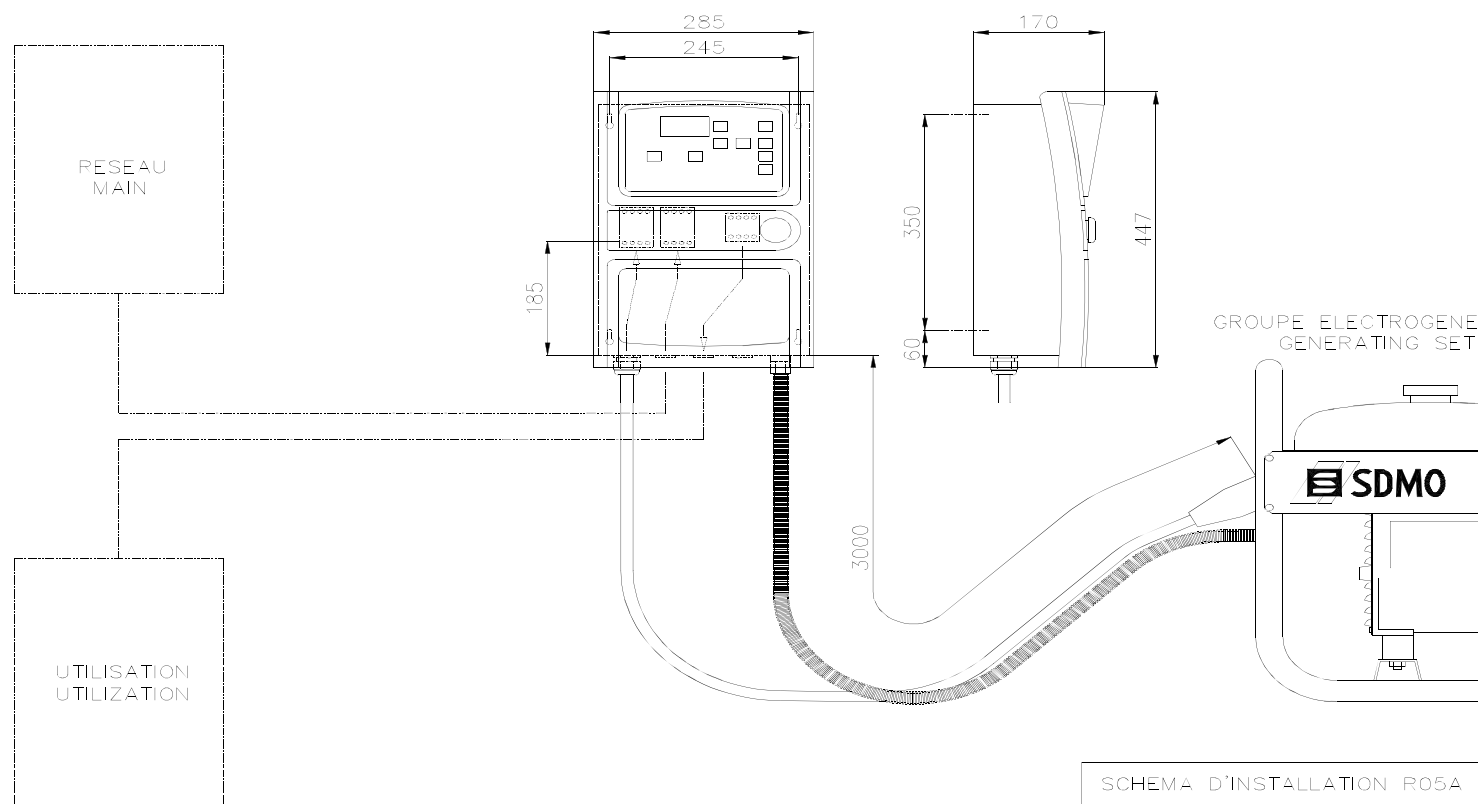




## Operation of the R05a automatic unit



## Operation of the R05a automatic unit



Connection using wiring equipped with a connector,  
on the panel attached to the generating set

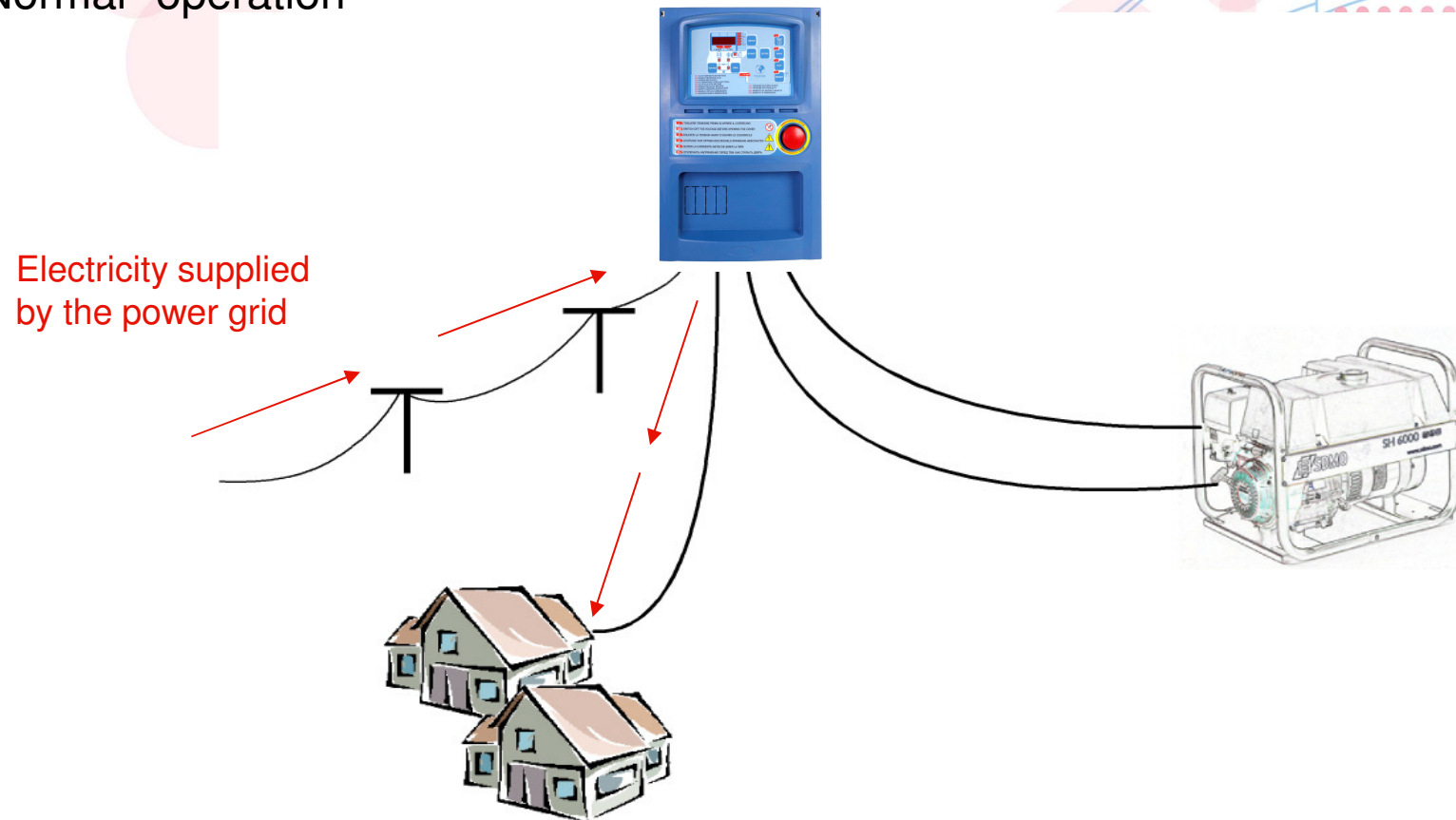
SCHEMA D'INSTALLATION R05A  
R05A INSTALLATION DRAWING  
3-35-03-0368-02-A



Concept

## Operation of the R05a automatic unit

"Normal" operation



14/06/07

Ref : CO070601



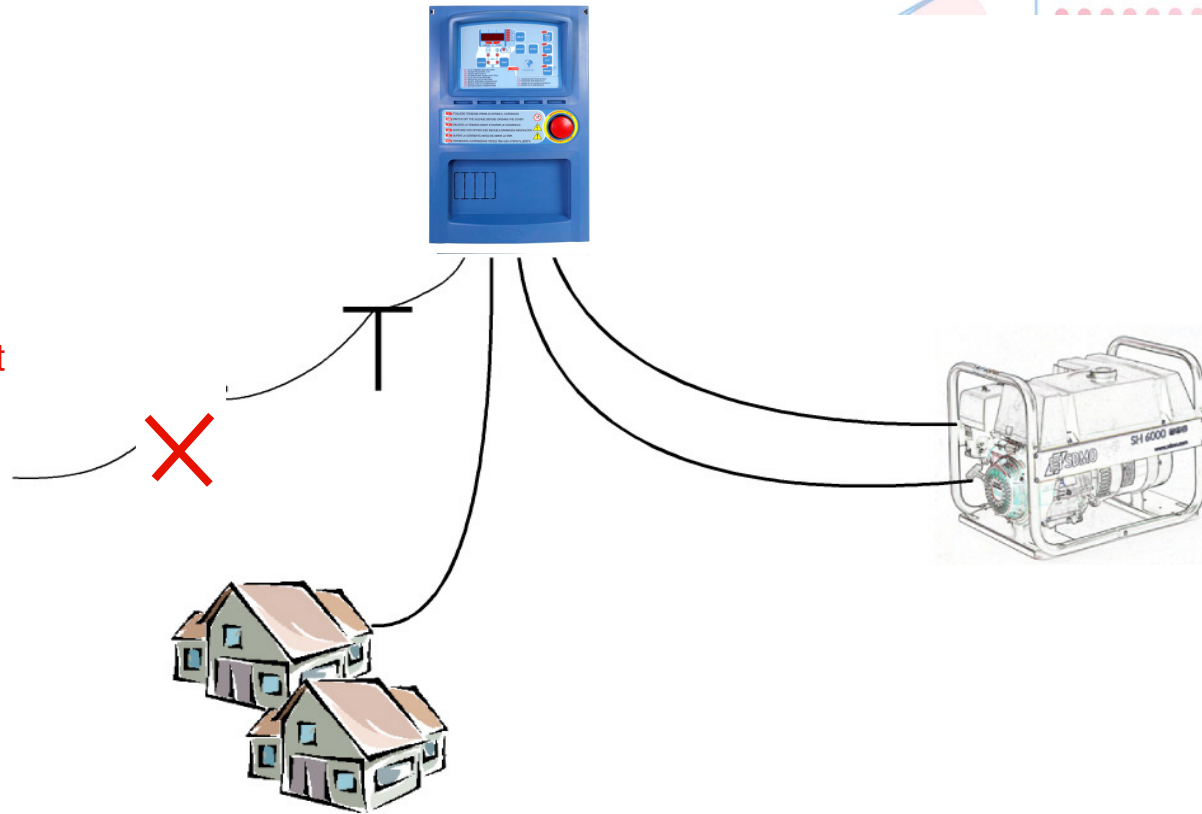
**Global Power  
Solution™**



## Operation of the R05a automatic unit

Operation

① Mains power cut



Concept

14/06/07

Ref : CO070601



**Global Power  
Solution™**



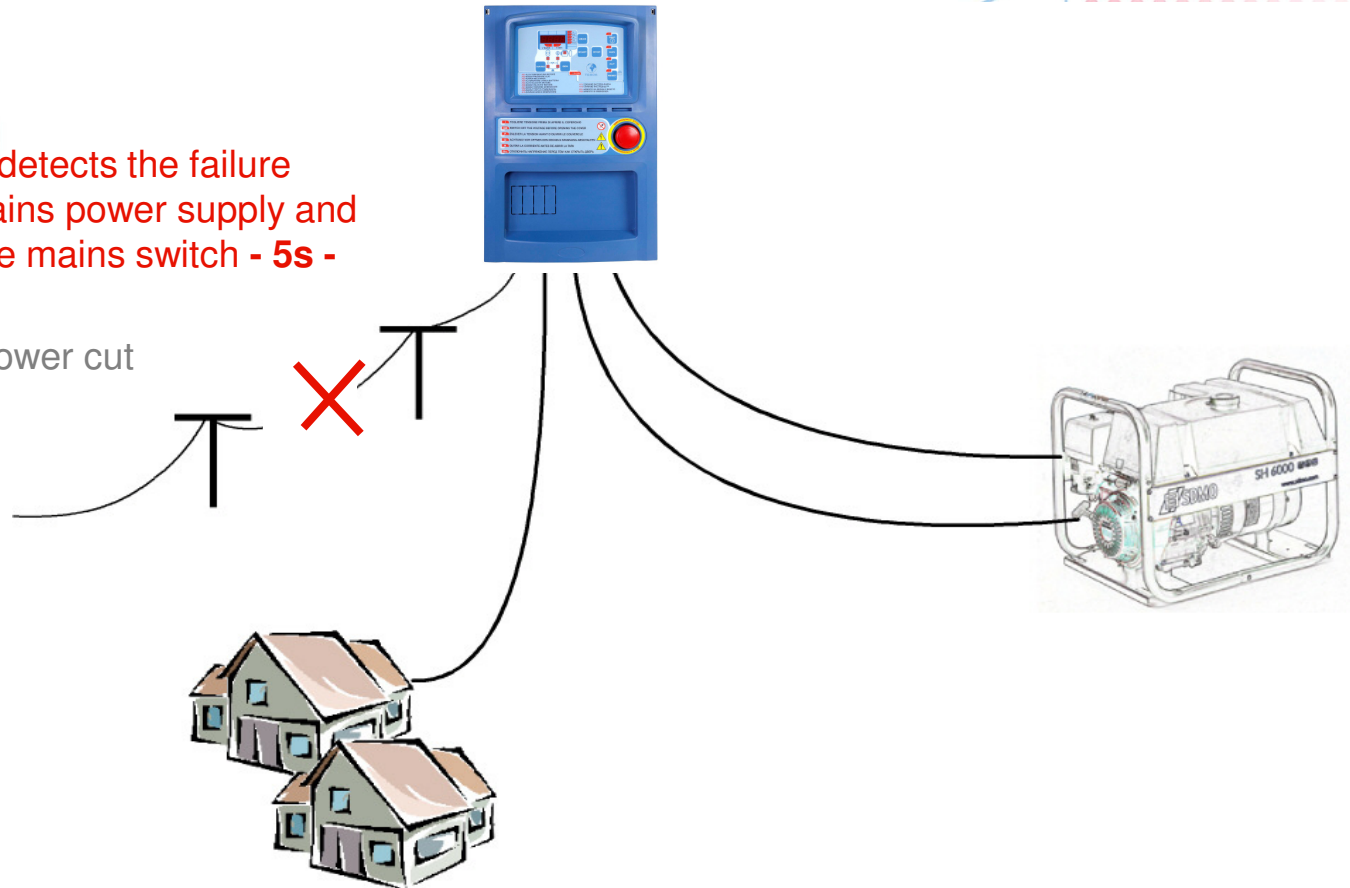
Concept

## Operation of the R05a automatic unit

### Operation

- 2 The unit detects the failure of the mains power supply and opens the mains switch - 5s -

Mains power cut



14/06/07

Ref : CO070601



Global Power  
Solution™

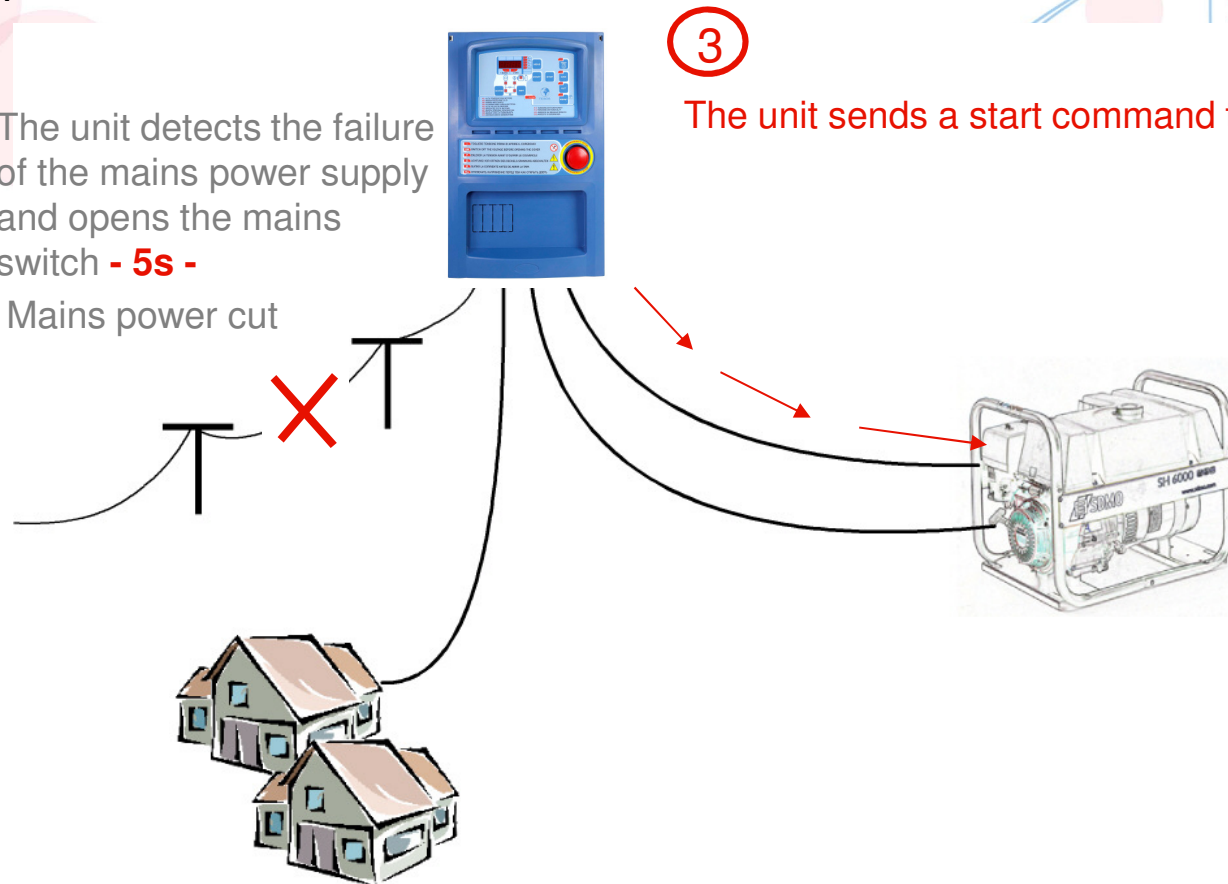


### Operation of the R05a automatic unit

#### Operation

The unit detects the failure of the mains power supply and opens the mains switch - **5s** -

Mains power cut





Concept

## Operation of the R05a automatic unit

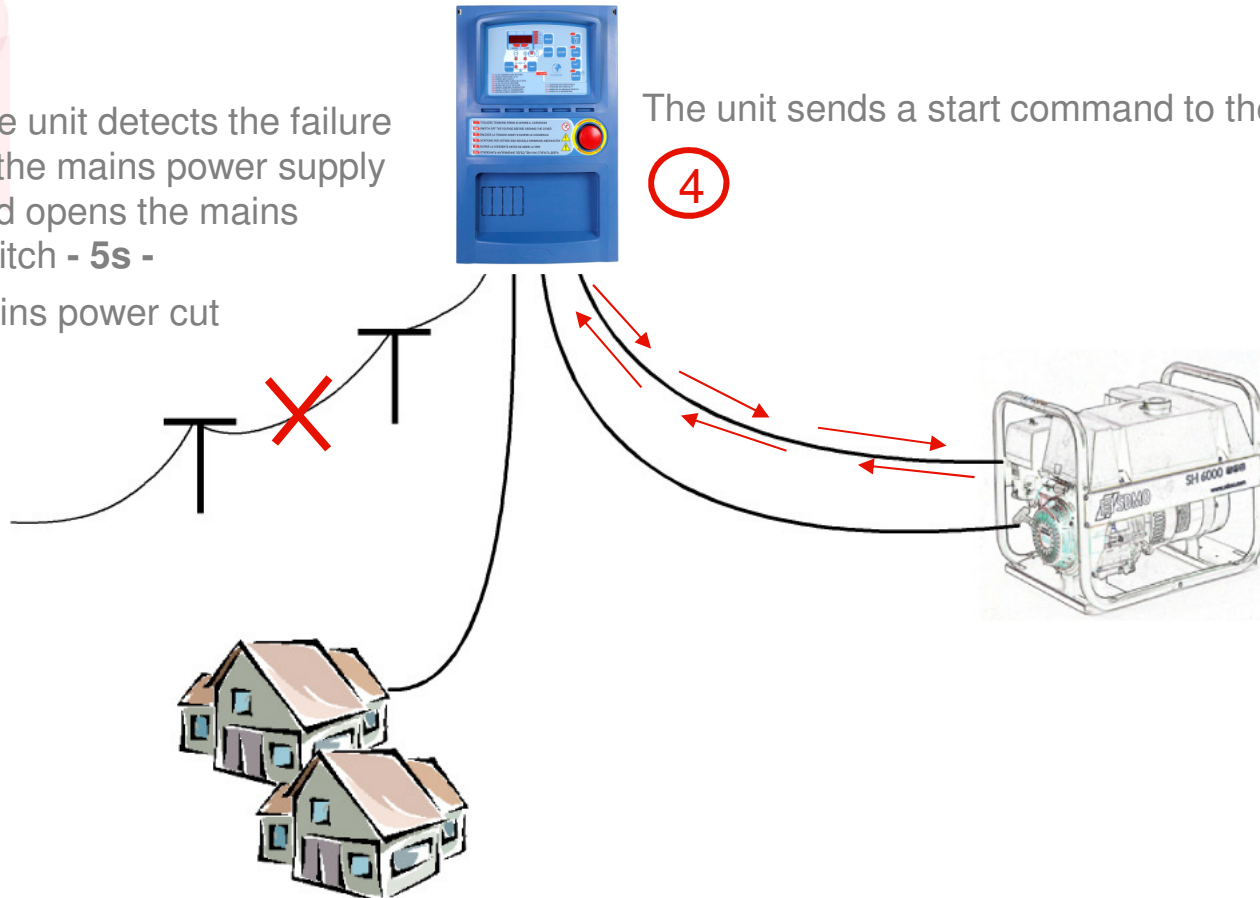
### Operation

The unit detects the failure of the mains power supply and opens the mains switch - **5s** -

Mains power cut

The unit sends a start command to the generating set

④



14/06/07

Ref : CO070601



Global Power  
Solution™

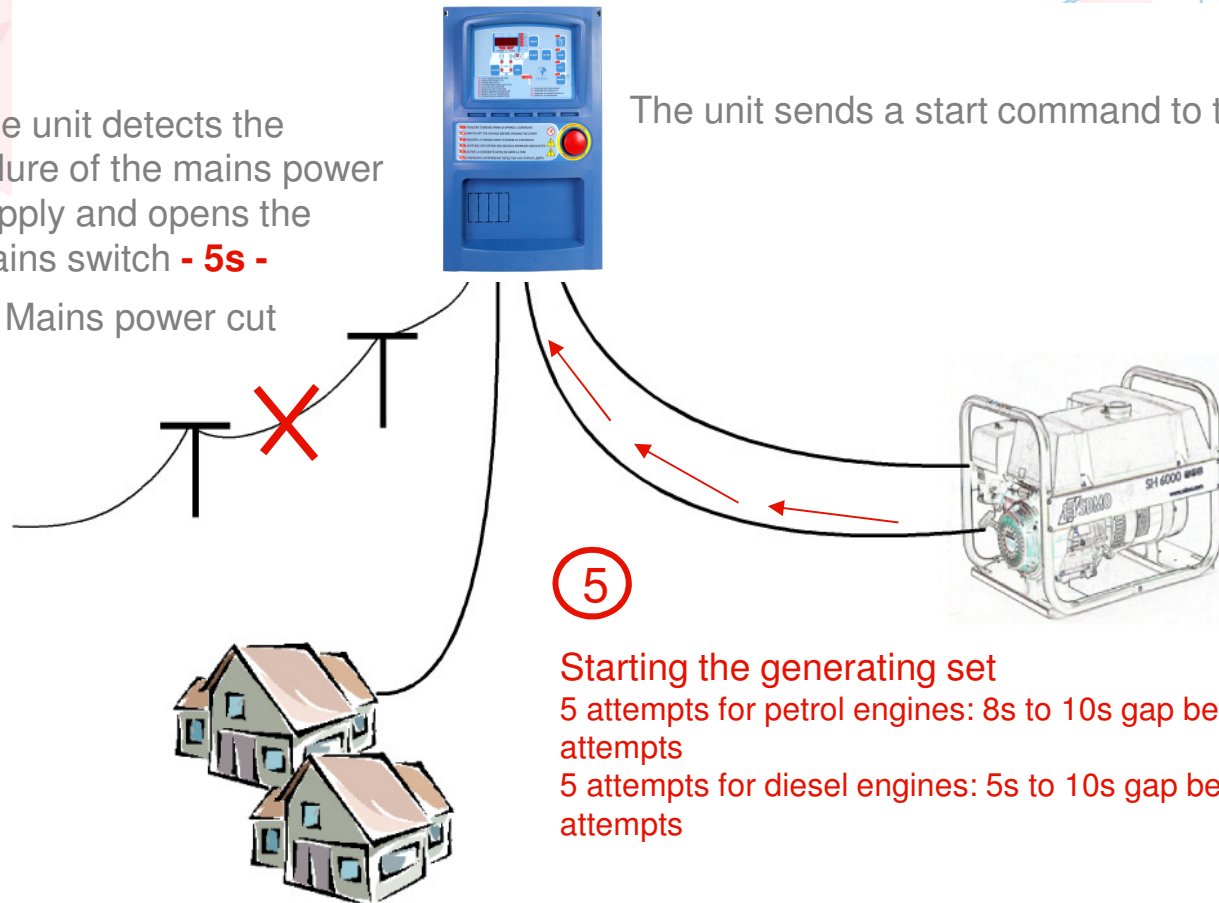
## Operation of the R05a automatic unit

### Operation

The unit detects the failure of the mains power supply and opens the mains switch - **5s** -

Mains power cut

The unit sends a start command to the generating set



5

Starting the generating set

5 attempts for petrol engines: 8s to 10s gap between attempts

5 attempts for diesel engines: 5s to 10s gap between attempts

## Operation of the R05a automatic unit

### Operation

The unit detects the failure of the mains power supply and opens the mains switch - **5s** -

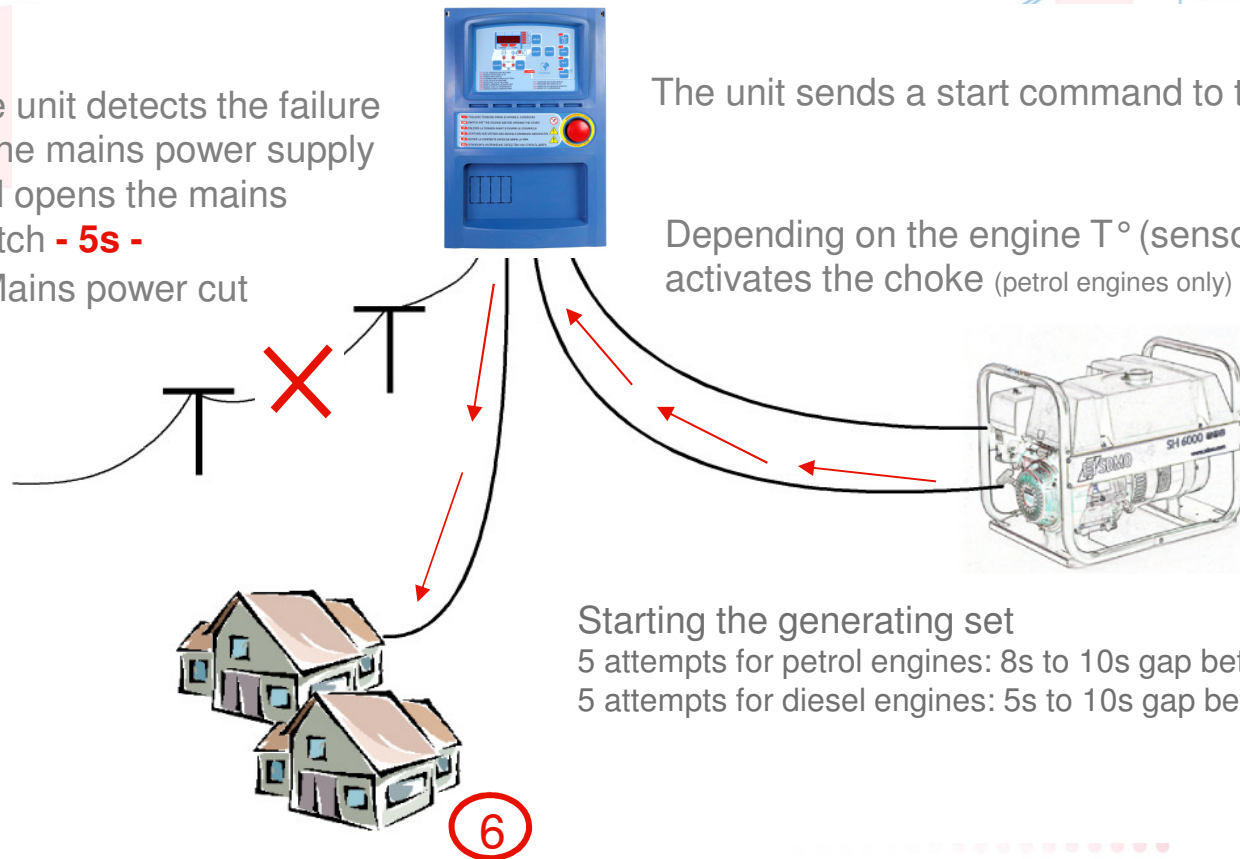
Mains power cut

The unit sends a start command to the generating set

Depending on the engine T° (sensor), the panel activates the choke (petrol engines only)

Starting the generating set

5 attempts for petrol engines: 8s to 10s gap between attempts  
5 attempts for diesel engines: 5s to 10s gap between attempts





## Operation of the R05a automatic unit

### Operation

The unit detects the failure of the mains power supply and opens the mains switch - **5s** -

⑦ When the unit detects the mains power supply, it switches back to this source - **10s** -

The unit sends a start command to the generating set

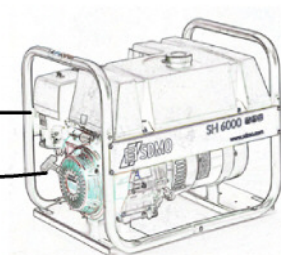
Depending on the engine T° (sensor), the panel activates the choke (petrol engines only)

Starting the generating set

5 attempts for petrol engines: 8s to 10s gap between attempts

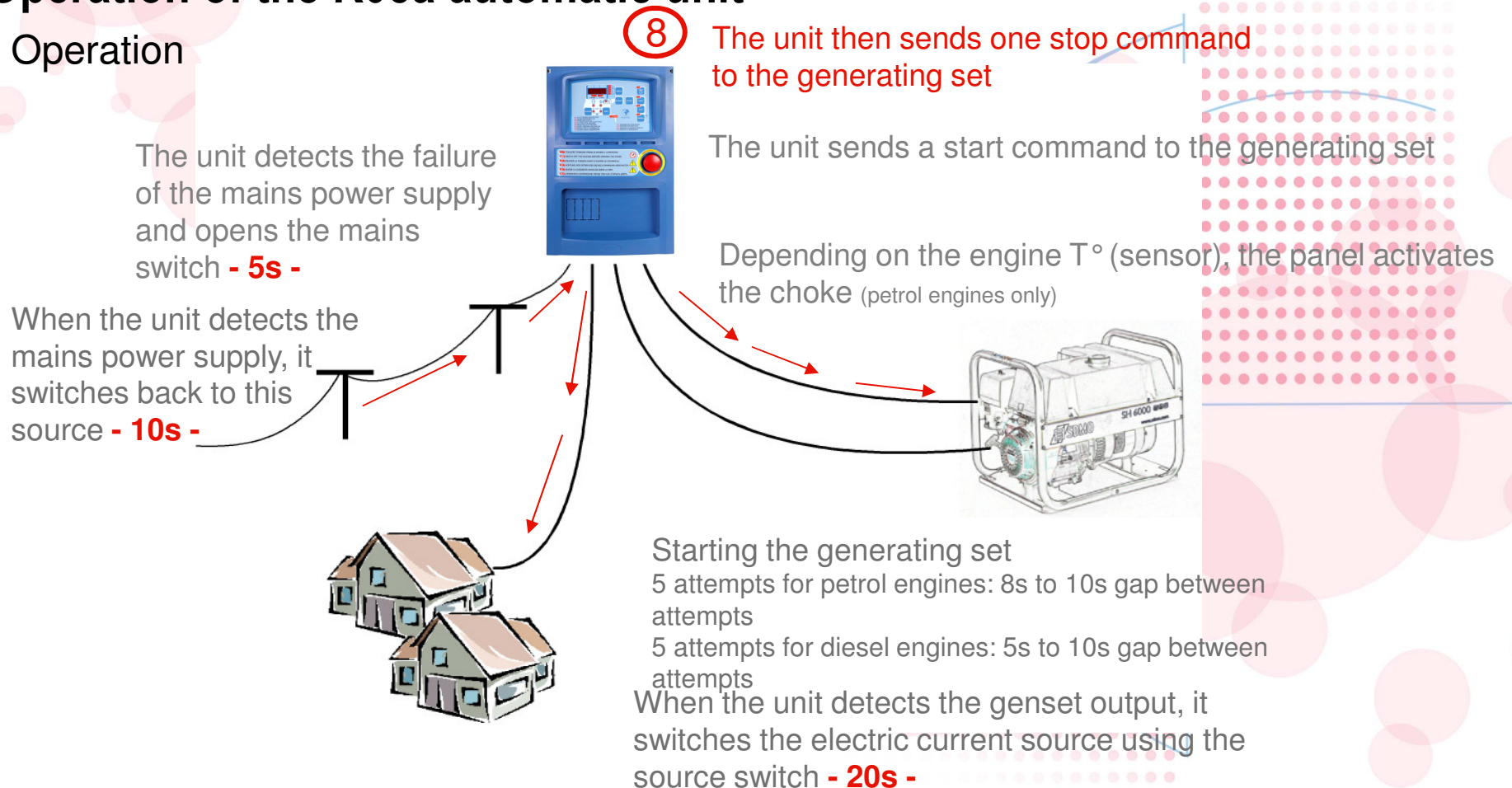
5 attempts for diesel engines: 5s to 10s gap between attempts

When the unit detects the genset output, it switches the electric current source using the source switch - **20s** -



## Operation of the R05a automatic unit

### Operation

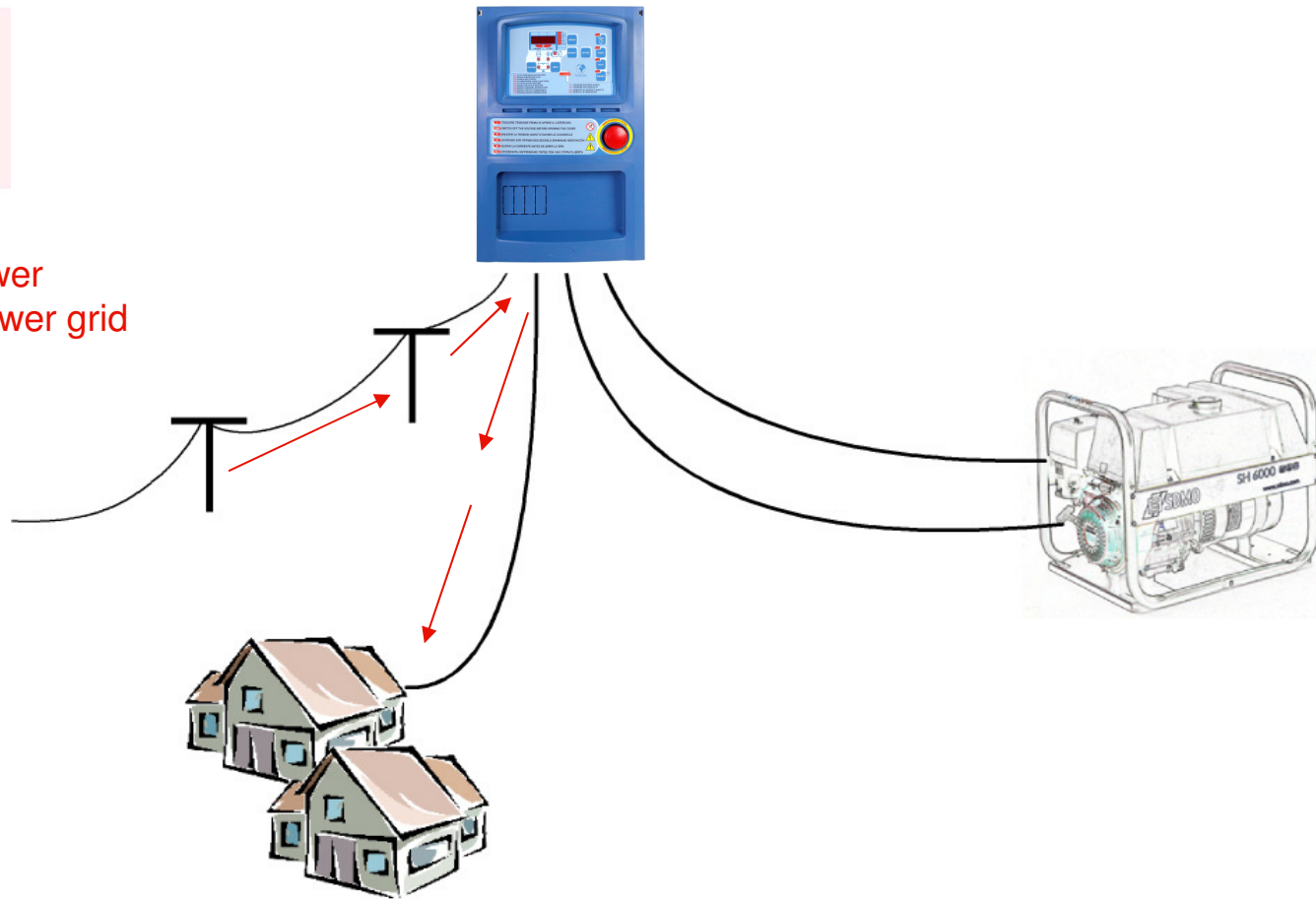




## Operation of the R05a automatic unit

"Normal" operation

Electric power  
from the power grid



Concept

14/06/07

Ref : CO070601



**Global Power  
Solution™**

## Operation of the R05a automatic unit

**Programmable settings:** certain pre-programmed settings can be reprogrammed. (cooling time, alarm siren duration, number of attempts to start, minimum mains supply threshold, etc.)

**The automatic test** is run at fixed intervals. If the unit is in automatic mode and the function is activated, the generating set operates for an adjustable period after start-up. (this function can be deactivated and is adjustable)

**The EJP function** is possible. When it is activate, the remote start-up input becomes the EJP input

**Information and alarm codes:** the codes indicating alarms or unusual situations appear on the display.

**A01:** T° alarm / **A02:** oil pressure alarm / **A04:** mechanical alarm, etc.

**E01:** emergency shutdown / **E04:** genset voltage low, etc.