



## GRIDSYNC CONVERTER



**SCALABLE TO ANY  
VOLTAGE: 380V - 480V**



**FREQUENCY:  
50HZ - 60HZ**

### SOLUTIONS FOR THE FOLLOWING CHALLENGES:



**A WEAKER  
GRID CONNECTION**

A stable supply (400V) over three phases.



**DELIVERING OR RECEIVING  
A DIFFERENT FREQUENCY**

Switch between 50 Hz or 60 Hz (380V or 480V).



**DURING HIGH PEAK DEMAND**

A reliable power supply, also in parallel battery setups.



**A SECOND GRID CONNECTION IS  
NEEDED AND AVAILABLE**

Integrate a second grid connection for extra power and energy.

# GRIDSYNC CONVERTER

Create a suitable, sustainable energy supply for every ship

### BENEFITS OF GRIDSYNC



**ALWAYS ABLE TO COMBINE**

Convert various frequencies so any grid connection can become a reliable energy supply



**REDUCE EMISSIONS BY UP TO  
100%**

Reduce emissions and diesel consumption by up to 100% No fumes, emissions or noise pollution



**INCREASE ENERGY  
SECURITY**

By combining GridSync with a grid connection, you strengthen the system so it continues even if one part fails



**USE ALL AVAILABLE ENERGY**

Make optimal use of on-site energy sources through our Energy Management System

**EASILY  
EMISSION  
FREE**

## TECHNICAL SPECIFICATIONS



WEIGHT:  
**1950 KG**



DIMENSIONS:  
**2300 x 2000 x 1050 MM**



FREQUENCY:  
**50 - 60HZ**



INPUT VOLTAGE:  
**400V - 440V - 480V  
50/60HZ**



PRESELECTED OUTPUT:  
**400V -  
440V - 480V**



MAX OUTPUT POWER:  
**87kVA**

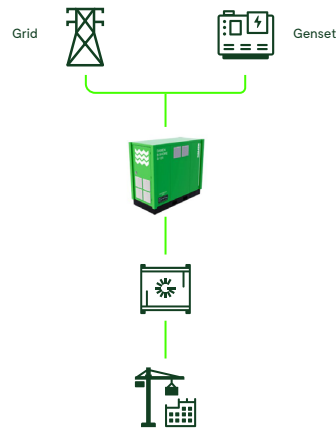


GALVANIC ISOLATION:  
**YES**

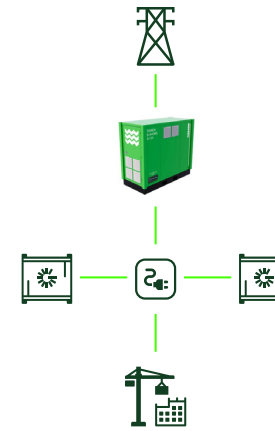


PROTECTION RATING:  
**IP54**

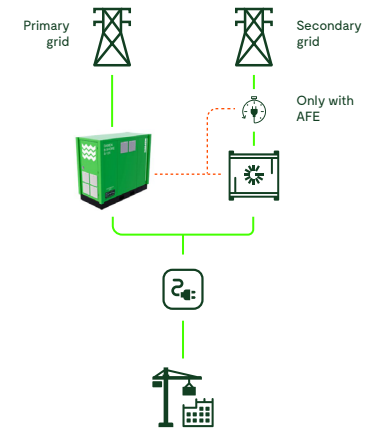
### GRID STABILISATION



### FREQUENCY-CONTROLLED SITUATION



### COMBINING MULTIPLE GRID CONNECTIONS



## SETUPS

# 1

### SETUP 1

#### GRID STABILISATION

##### Situation:

- The grid connection's voltage dips with higher demand and frequently fails
- A different frequency is available on-site
- The end user requests a different frequency.

##### Solution:

- Stabilise a three-phase grid connection, ensuring uninterrupted energy supply.
- Convert frequencies from 50 Hz to 60 Hz (380V-480V) or vice versa.

# 2

### SETUP 2

#### FREQUENCY-CONTROLLED SITUATION

##### Situation:

- High inrush current or reactive power is required with a grid connection.
- An extra reliable energy supply is needed that will keep going even if a component fails.

##### Solution:

A frequency-controlled setup with a grid connection. The isolated setup can handle high power peaks without overloading the grid connection.

# 3

### SETUP 3

#### COMBINING MULTIPLE GRID CONNECTIONS

##### Situation:

The existing grid connection is not powerful enough, but a second grid connection is available on-site.

##### Solution:

Combine both grid connections for a more powerful energy supply. The GridSync provides a "galvanic" separation between the grid connections, ensuring safe operation.

**EASILY  
EMISSION  
FREE**

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