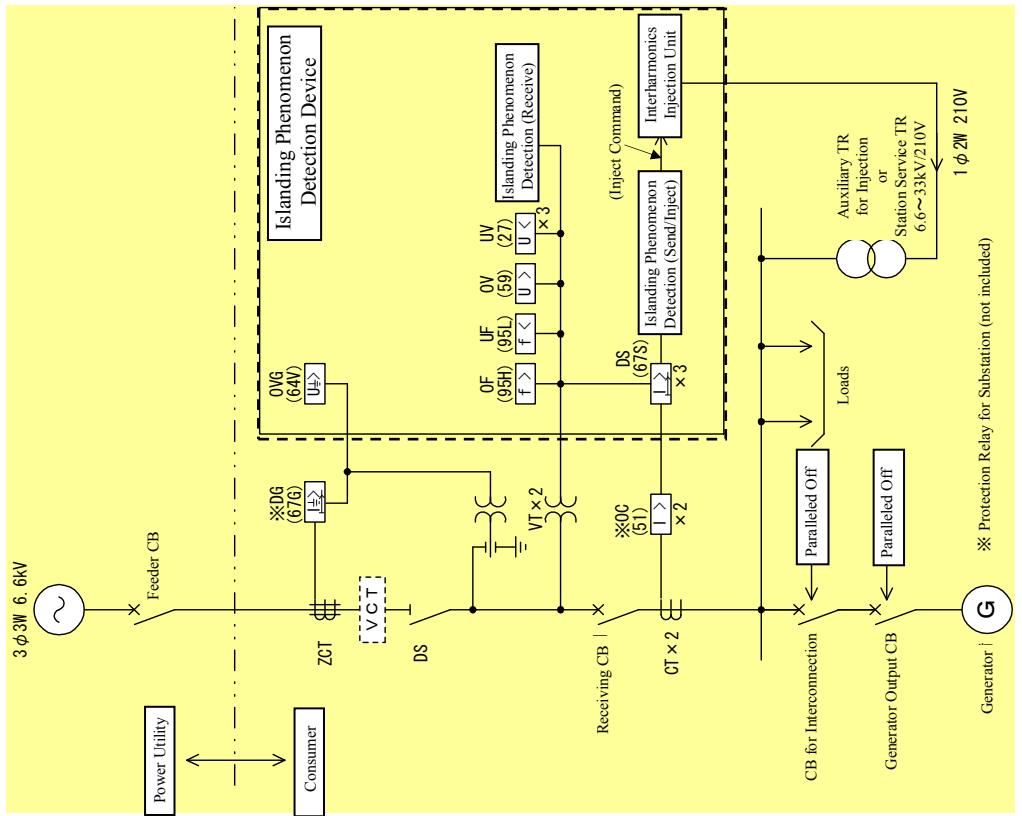


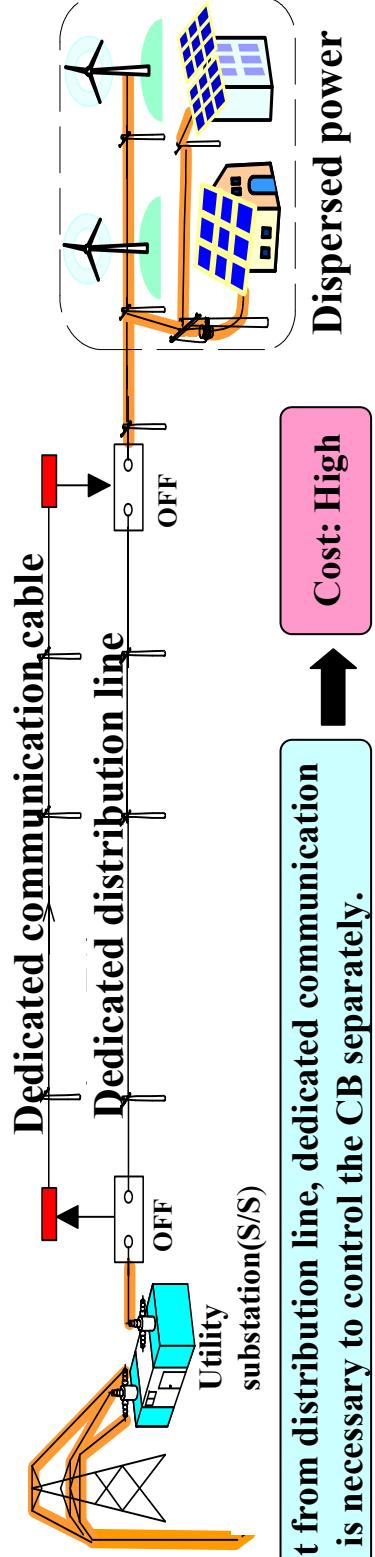
# NISSIN Islanding Phenomenon Detecting Device



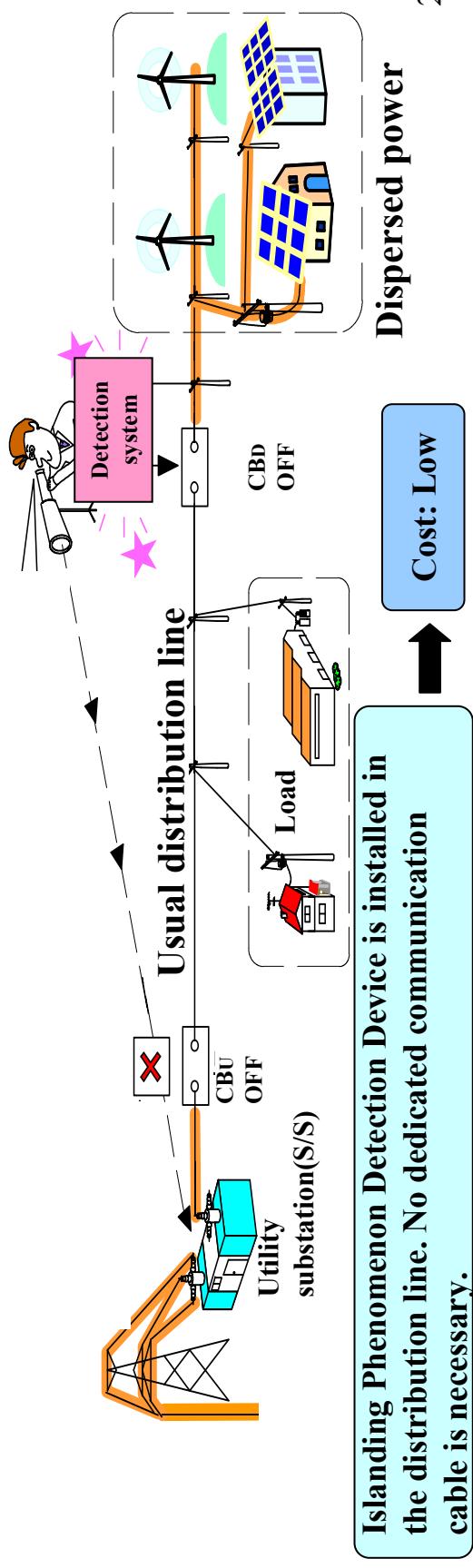
<b>Dimensions</b>	(W)500 x (H)1,760 x (D) 400 mm
<b>Weight</b>	210kg

# 2 Major Systems to Protect the Power Grid from Islanding phenomenon

## 1. Transfer Tripping System



## 2. Islanding Phenomenon Detection System



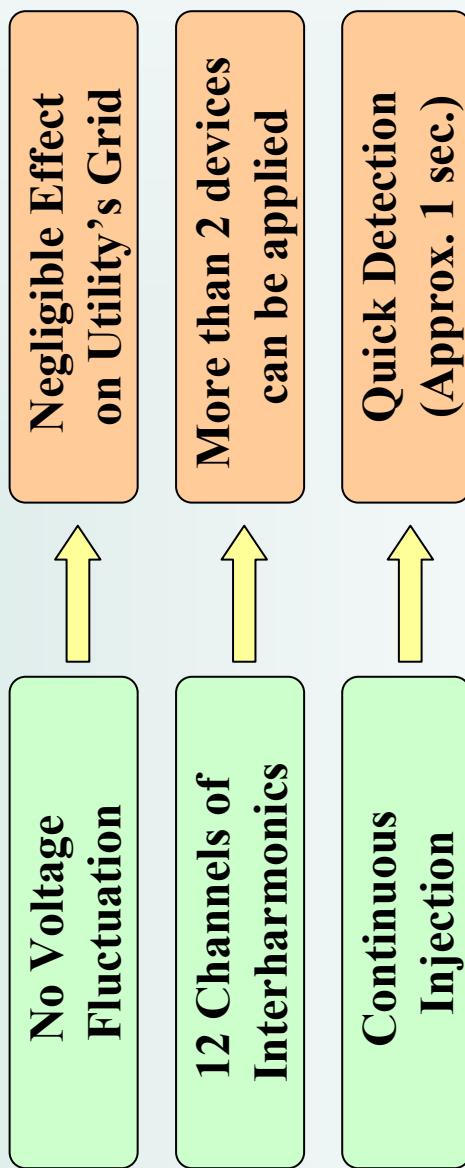
### Problems of Transfer Tripping System and Conventional Islanding Phenomenon Detection System

System	Problem
Transfer Tripping System	<ul style="list-style-type: none"><li>High cost due to the dedicated communication cable</li></ul>
Reactive Power Variation (Compensation) Method	<ul style="list-style-type: none"><li>Slow detection time</li></ul>
Load Variation Method	<ul style="list-style-type: none"><li>When more than 2 devices are applied in the system;<ul style="list-style-type: none"><li>(1) Low reliability due to the mutual interference</li><li>(2) Occurrence of voltage variation (flicker, etc.)</li></ul></li></ul>
QC Mode Frequency Shifting Method	

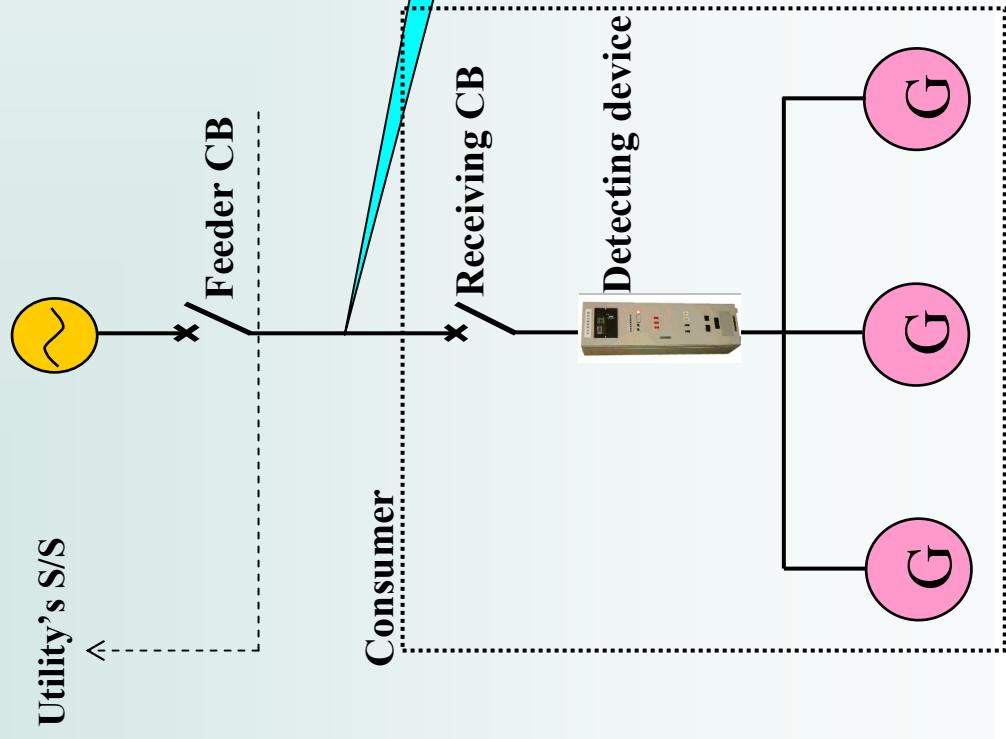
Nissin's Detection Device is ideal solution to the above problems!!

## Features of Nissin Islanding Phenomenon Detecting Device

Nissin's device detects the Islanding Phenomenon by continuous injection of interharmonics.



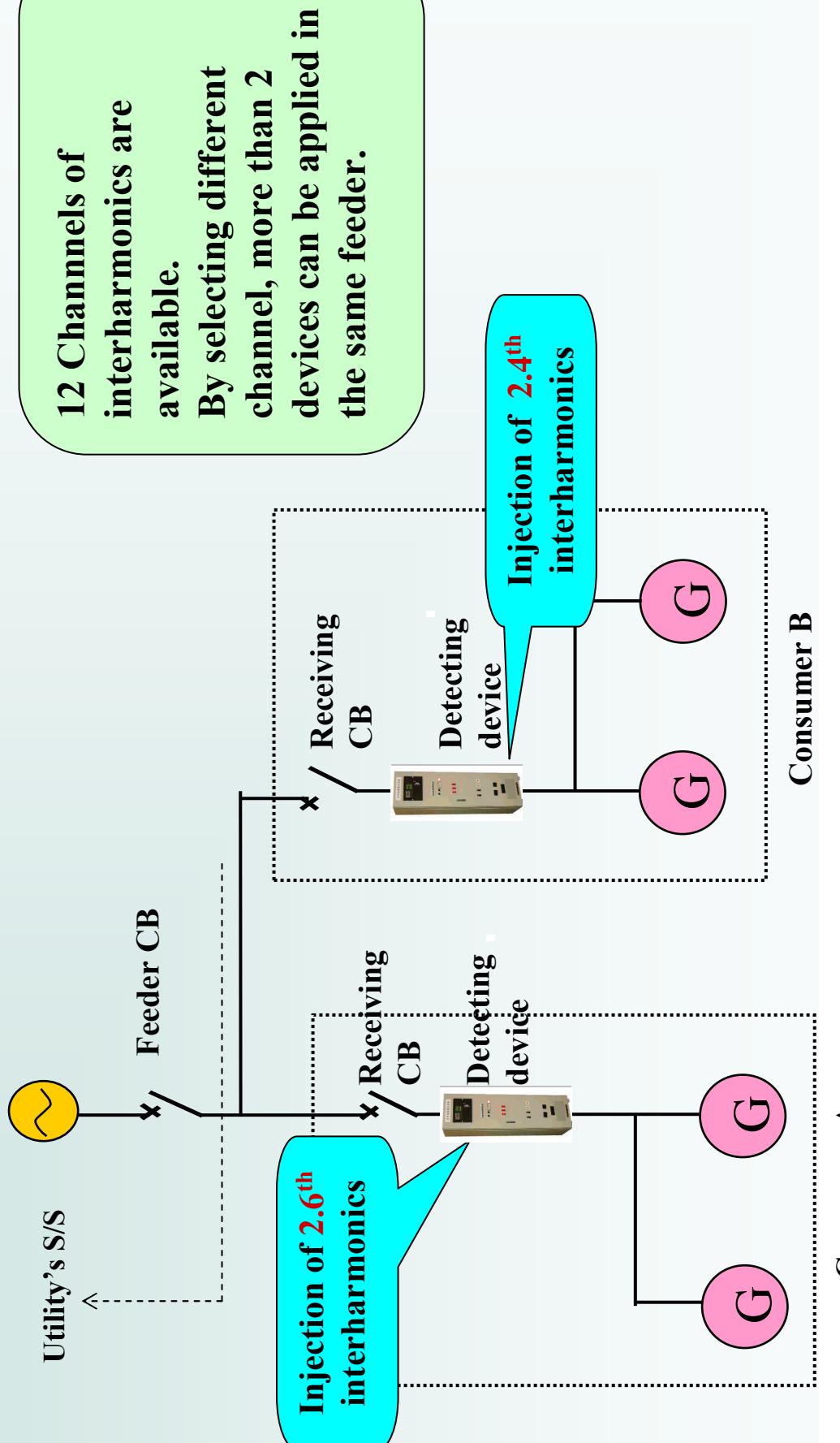
## Negligible Effect on Utility's Grid



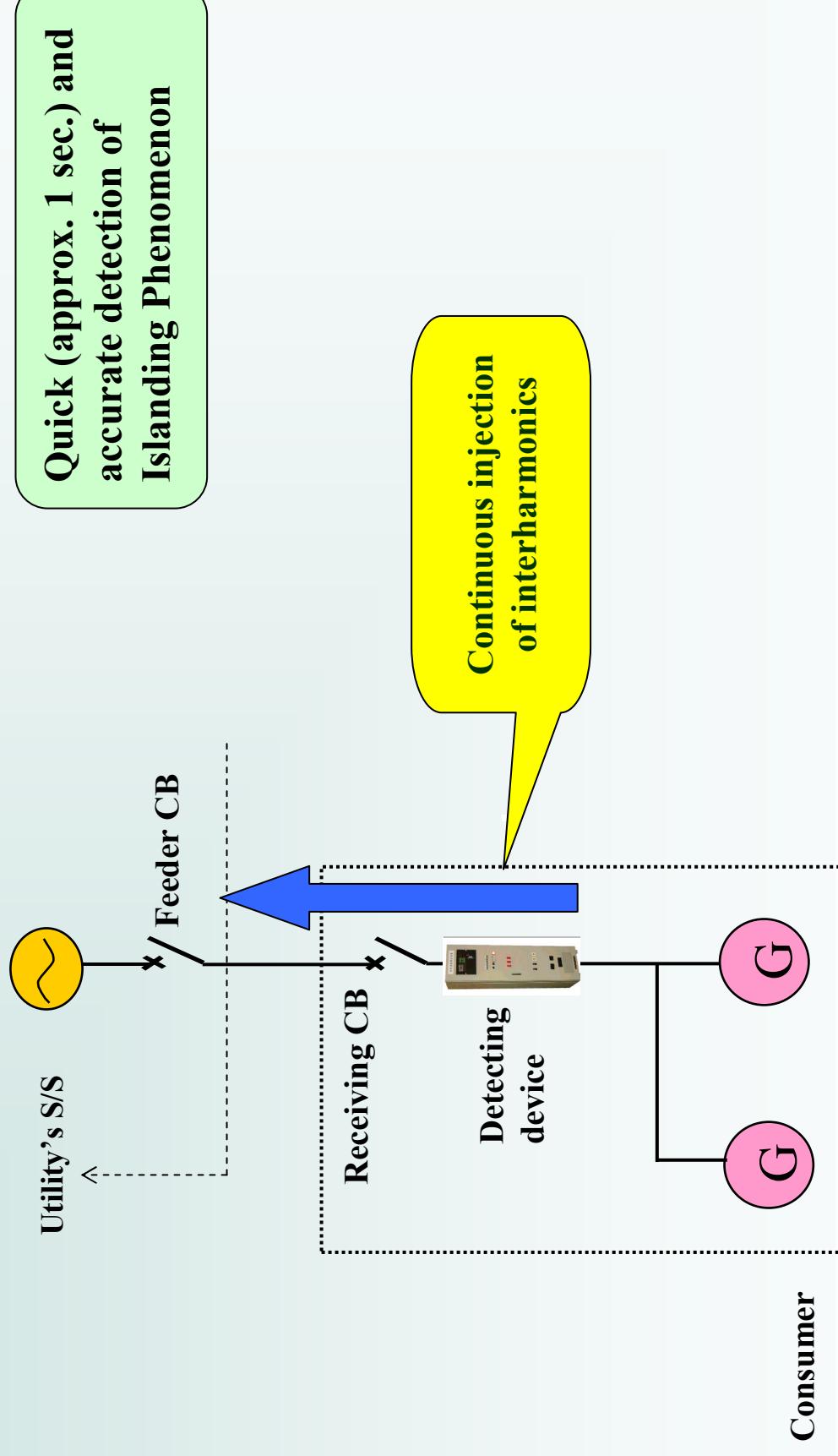
Voltage distortion factor  
on the Utility's Grid side  
is approx. 0.1% only.  
\* Japanese Guideline:  
Not more than 5%

Almost no effect of the  
device on the Utility's Grid

## More than 2 devices can be applied in the System

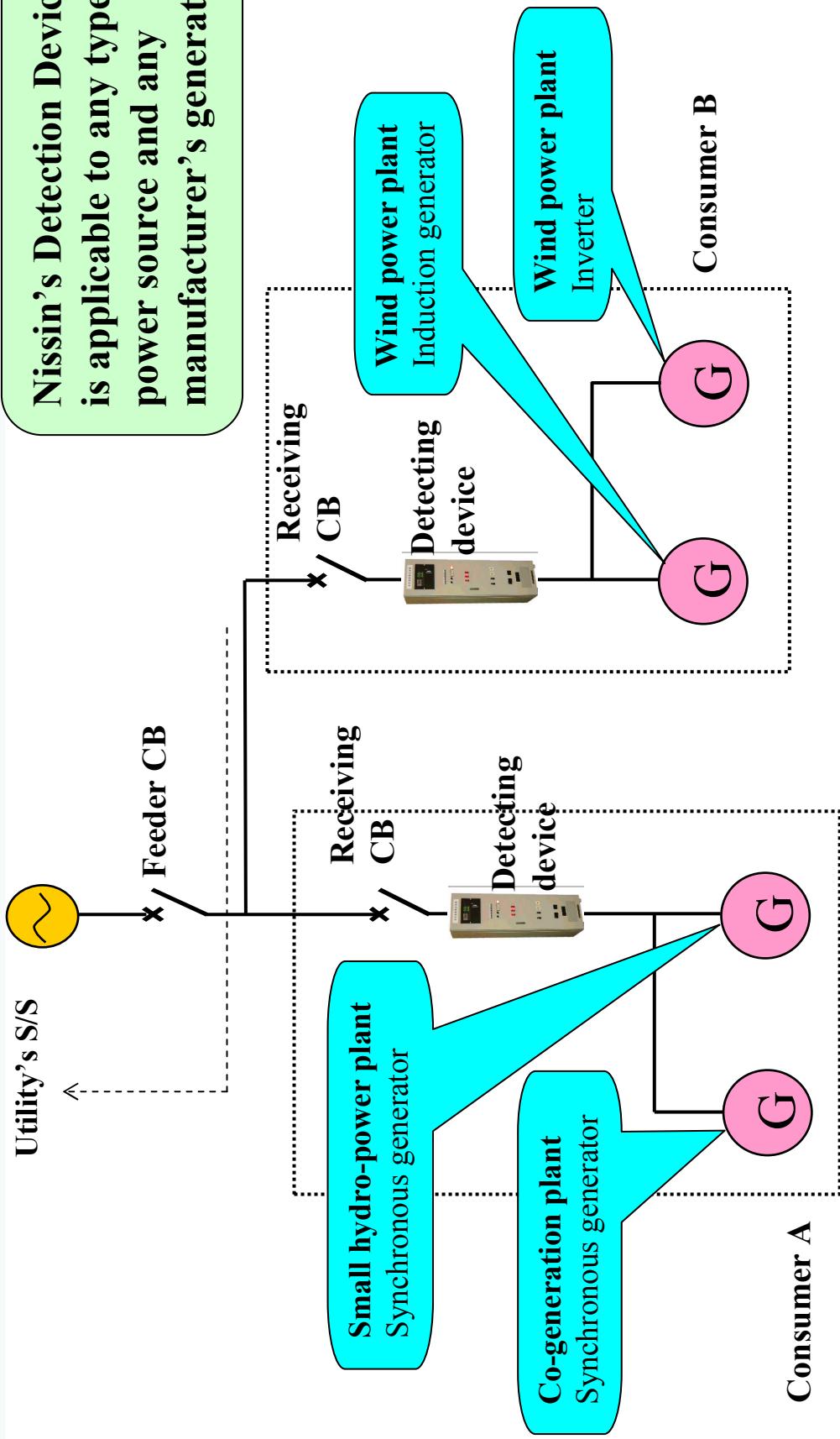


## Quick Detection

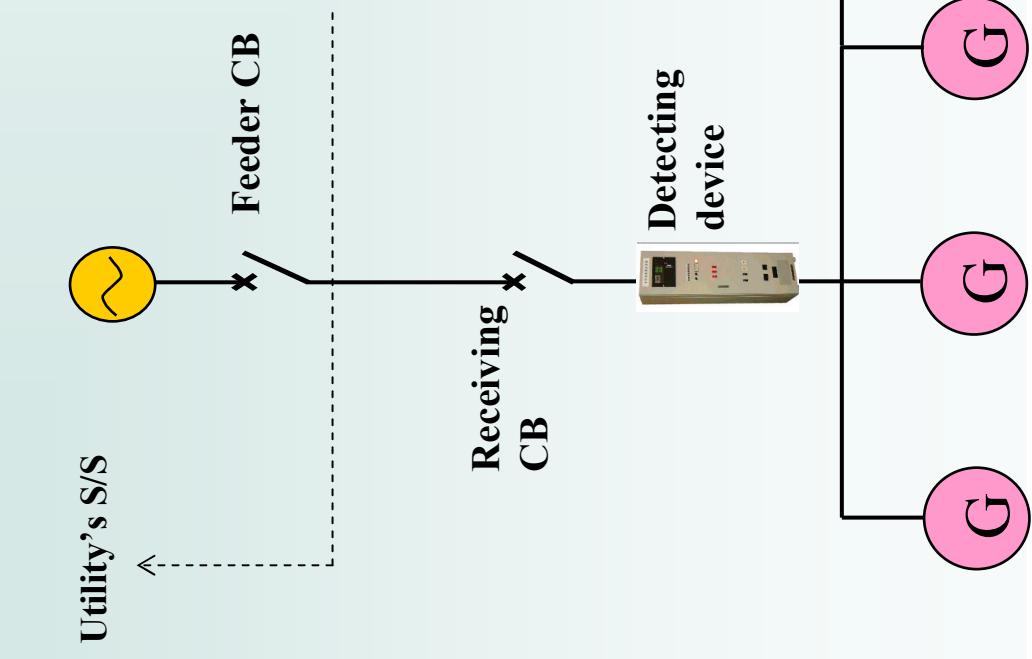


### Applicable to any type of Power Source

Nissin's Detection Device is applicable to any type of power source and any manufacturer's generator.



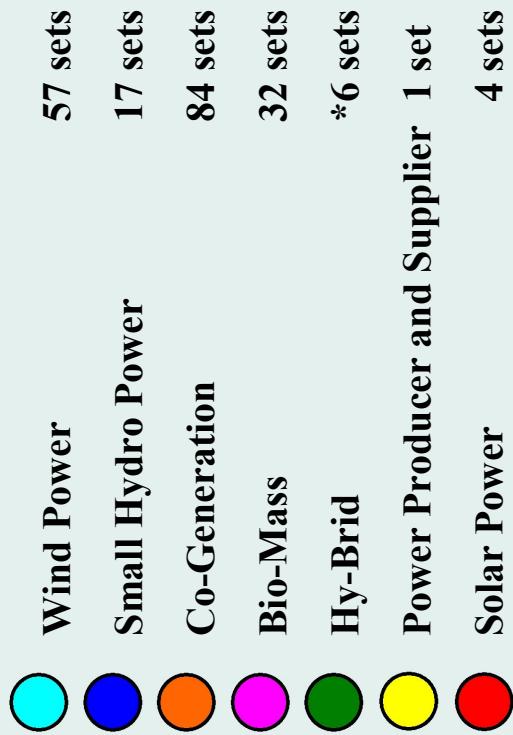
## No Limit to the Number of Generators



Only 1 Detecting Device is enough to cover all generators installed in 1 linkage.

There is no limit on the number of the power generators to be connected to the device. Addition of generators for the extension is no problem.

## Supply Record



\* (Including 1 set supplied in Taiwan)

Total : 199 sets (as of June 2012)