



# Fisuel Seminar – 15-16 of October 2024

## Barcelona – Spain

### Pierre SELVA

GAM 2024 – Seminar – 15 and 16 October 2024



PV Balcony System – Any safety issue ?

# Agenda

What are we talking about ?

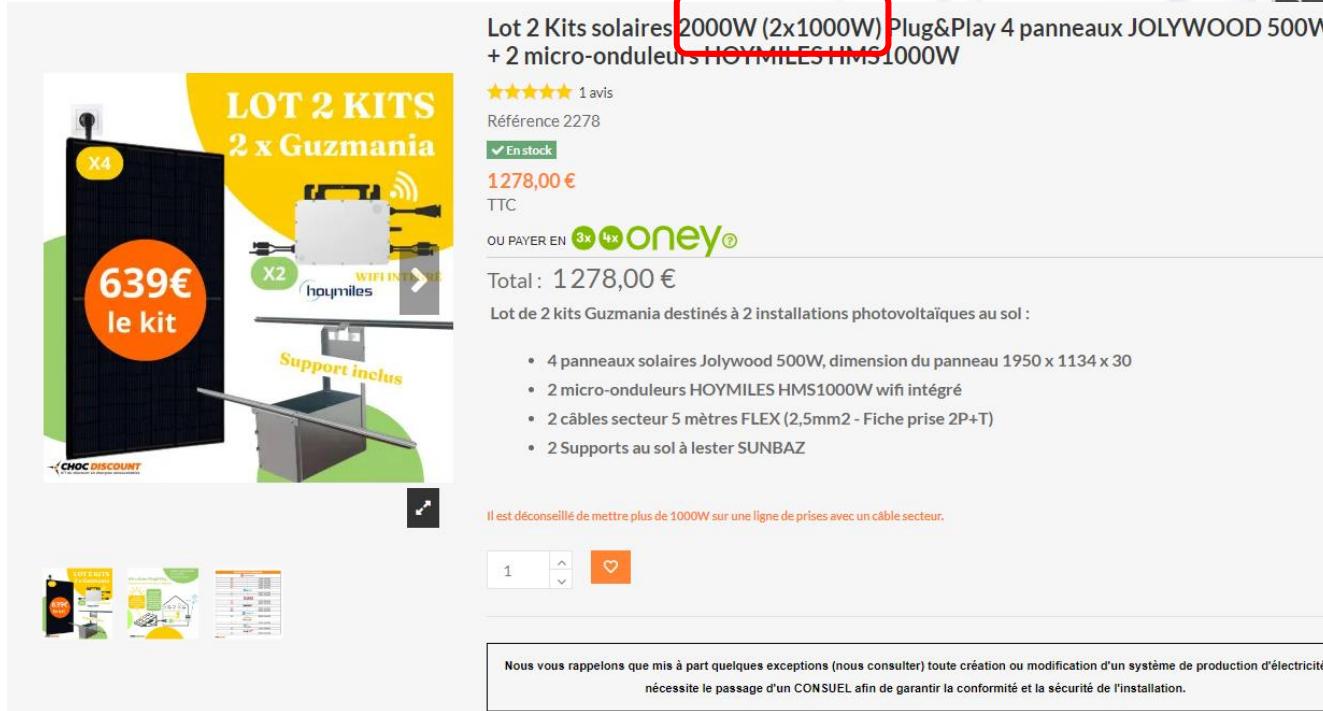
What is the safety issue ?

How to be safe ?

Actions to be expected



# What are we talking about ?



**LOT 2 KITS 2 x Guzmania**

**639€ le kit**

**Lot 2 Kits solaires 2000W (2x1000W) Plug&Play 4 panneaux JOLYWOOD 500W + 2 micro-onduleurs HOYMILES HMS1000W**

★★★★★ 1 avis

Référence 2278

✓ En stock

**1278,00 €**  
TTC

OU PAYER EN 3x 4x oney®

Total : 1 278,00 €

Lot de 2 kits Guzmania destinés à 2 installations photovoltaïques au sol :

- 4 panneaux solaires Jolywood 500W, dimension du panneau 1950 x 1134 x 30
- 2 micro-onduleurs HOYMILES HMS1000W wifi intégré
- 2 câbles secteur 5 mètres FLEX (2,5mm² - Fiche prise 2P+T)
- 2 Supports au sol à lester SUNBAZ

Il est déconseillé de mettre plus de 1000W sur une ligne de prises avec un câble secteur.

1 ⌂ ❤

Nous vous rappelons que mis à part quelques exceptions (nous consulter) toute création ou modification d'un système de production d'électricité nécessite le passage d'un CONSUEL afin de garantir la conformité et la sécurité de l'installation.



**Lot 900W kit panneaux solaires**

Swedish authorities issue warning about solar panels on balconies

The Swedish authorities have identified electrocution and fire risks posed by the improper deployment of plug-in solar modules.

JANUARY 30, 2023 EMILIANO BELLINI

Dutch standardization authority warns about balcony PV risks

The Royal Netherlands Standardization Institute (NEN) has warned Dutch consumers about the risks of poor balcony PV installations.

**Lionshee Balcony Solar Storage with microinverter PV HUB LiFePO4 Battery Power Plant 1~6kWh Home Energy Storage Power System**

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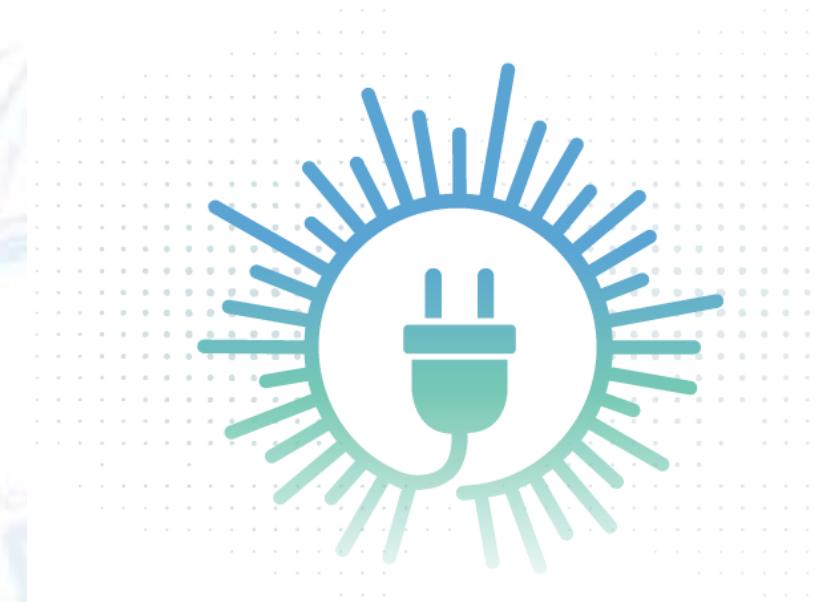
## What are we talking about ?

SER, ENERPLAN, ADEME issued a guide for plug & play solutions.

Validated by SGS. 

According to French Standards.

Direct link by clicking on picture on right (In French only ☹)



Soutenu par :



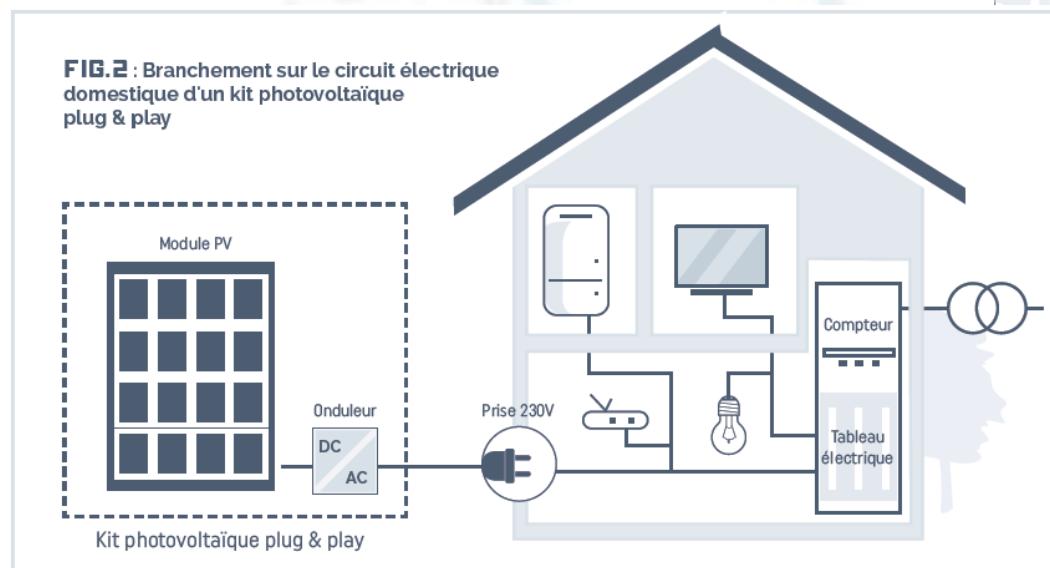
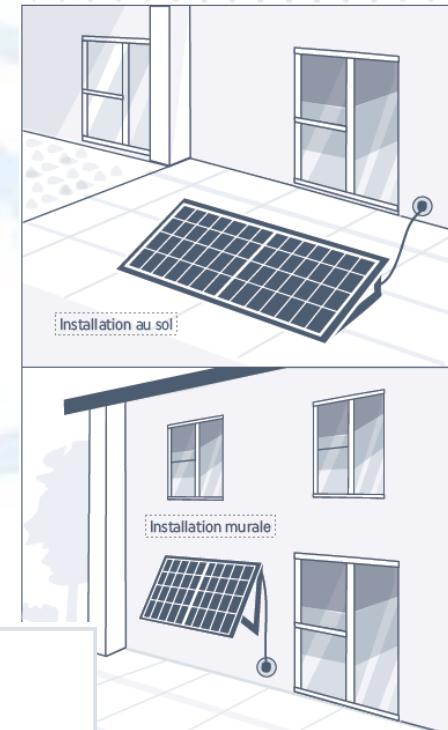
## What are we talking about ?

Ground or Wall mounted.

Directly connected to the electrical installation by a domestic power socket outlet.

Simple kit with possible extensions.

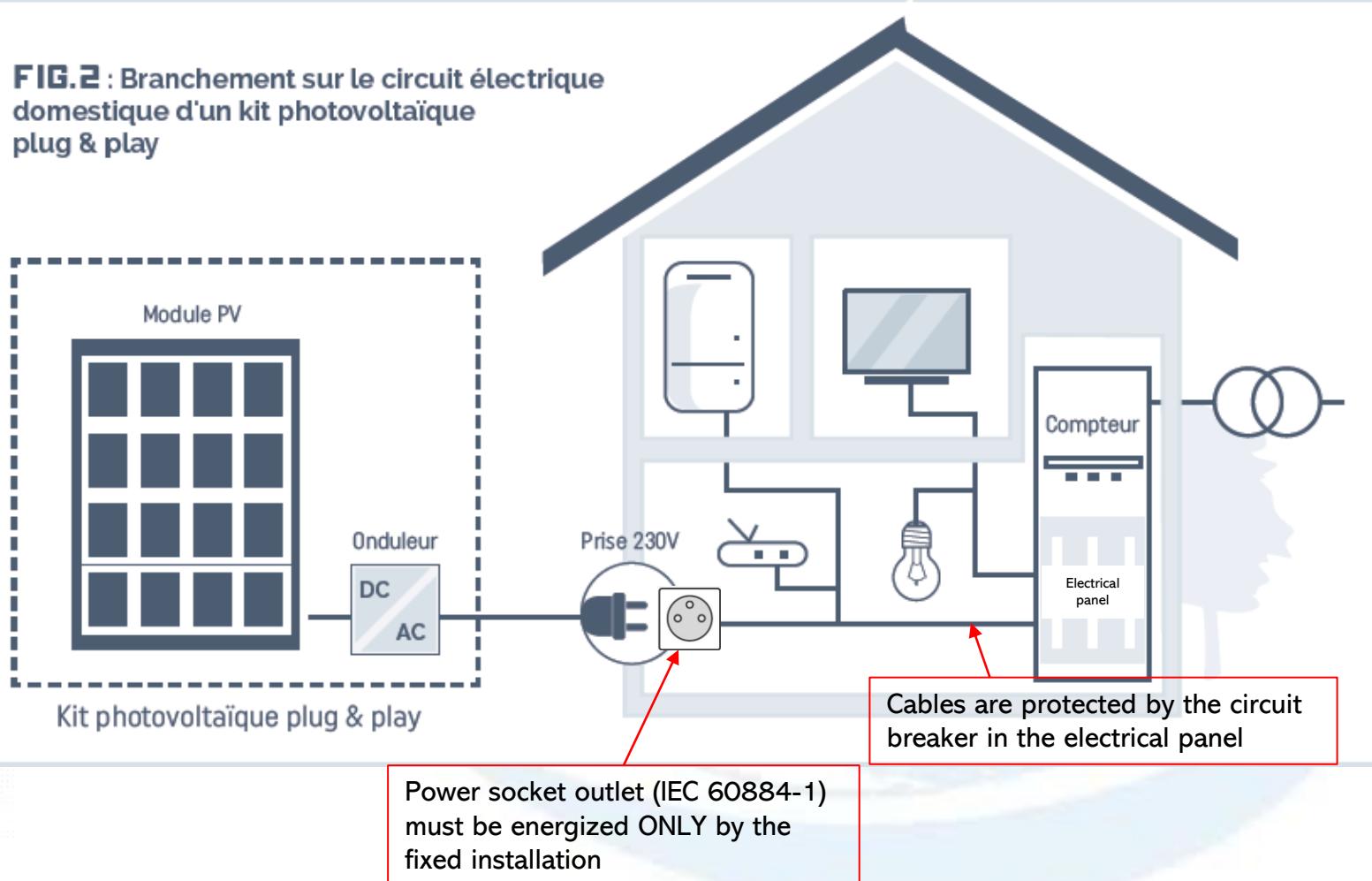
Easy to install, cheap, movable, answer to “energy transition”, use “free” energy.



GUIDE  
KIT PHOTOVOLTAÏQUE  
AUTOCONSOMMATION  
PLUG & PLAY

## What is the safety issue ?

**FIG.2** : Branchement sur le circuit électrique domestique d'un kit photovoltaïque plug & play



GUIDE  
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# How to be safe ?

French NFC15-100 rules

Wiring cables for 230V socket	Rating circuit breaker (A) In	Max current in wire (A) Iz	PV current max (A) $I_g = I_z - I_n$	Max PV power per circuit (VA)
Cooper 1,5 mm <sup>2</sup>	16 A	17,5 A	1,5 A	350 VA
Cooper 2,5 mm <sup>2</sup>	20 A	24 A	4 A	900 VA



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## Actions to be expected

- 1. Promote a safe use of PV Balcony kits**
- 2. Work at standard level to provide safe rules**
- 3. Raise awareness at local level with authorities and professional & consumer organizations**





**fisuel**

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