



/// PEIMAR

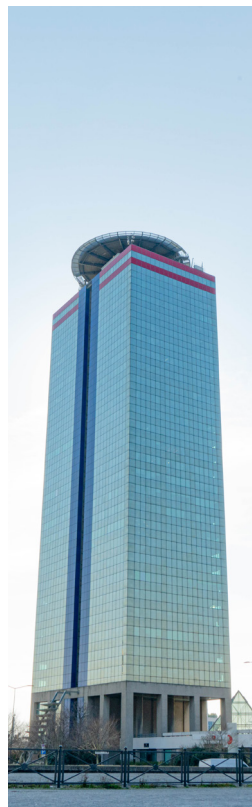
Energy in our hands

→ | 2025

| www.peimar.com



The production site in Castegnato (BS).



Crystal Palace (BS).
Peimar's HEADQUARTER



Peimar is an
Italian reality with
an international
outlook,

specialized in the design, research
and production of high-efficiency
photovoltaic modules with the
Made in Italy brand.



Made in Italy Production phases



All the production phases of the Made in Italy line take place in the Castegnato - Brescia - site.



Our production site is characterized by a high level of automation and an accurate quality control that guarantee a reliable product with a high performance over time.

Peimar was born as a manufacturer of photovoltaic modules but over the years has undergone an important evolution in the wide range of products that can offer to its customers.

Manufacturing process



1.



Selection of
the materials

2.



Assembly

3.



Packing

+

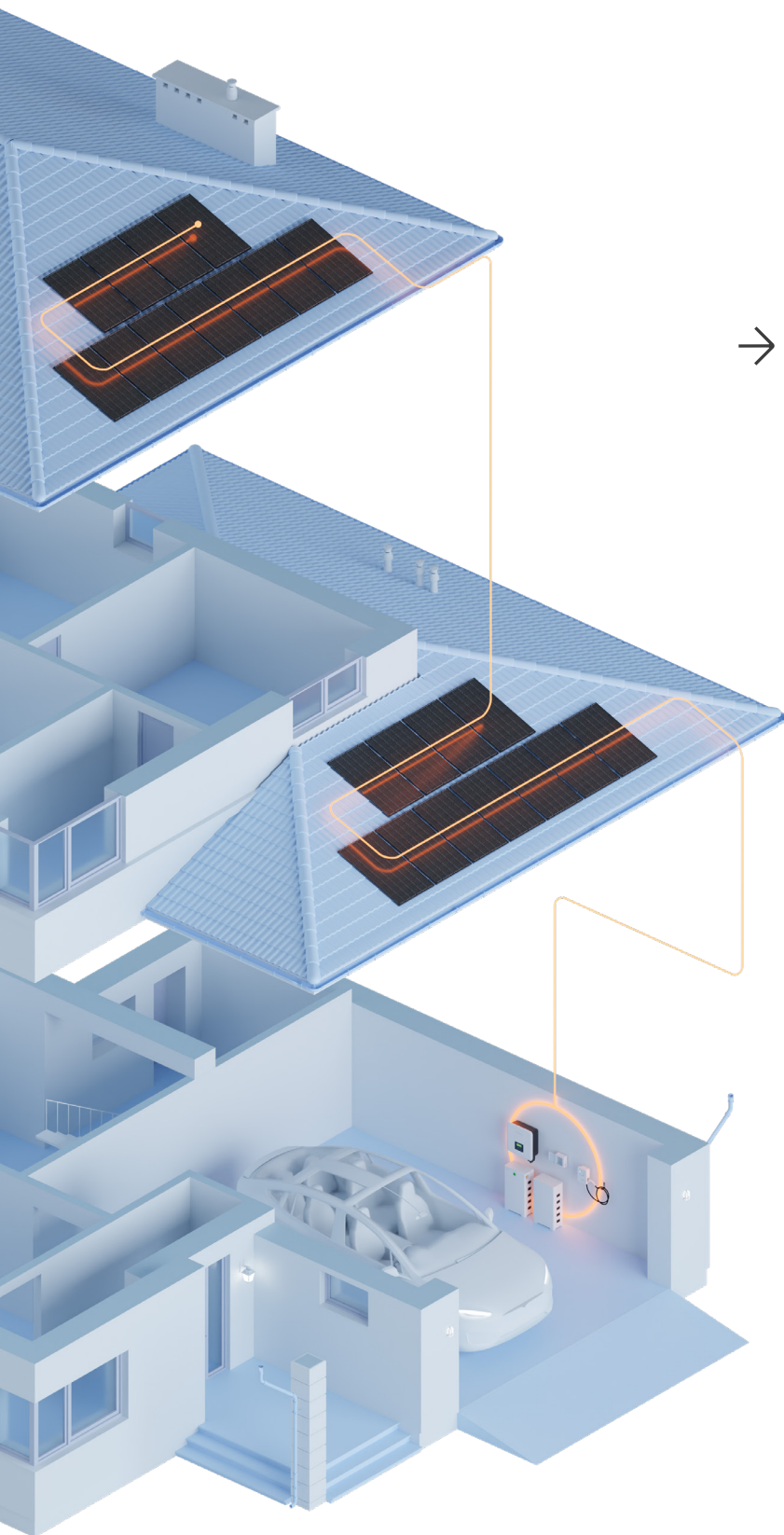


Quality Control

+



Automation



→ **An unique system
for the production
and energy
management**

We propose ourselves as a single point of contact for the entire system, guaranteeing excellent technical and commercial support. We aim to consistently fulfill our customers' requirements by offering the distinctive expertise that defines us, coupled with a strong enthusiasm for renewable energy.



Peimar photovoltaic modules are covered by QBE Insurance

with a comprehensive policy to protect the customer in case of damage caused to third parties by product defects. The policy was stipulated with QBE Insurance Group, one of the world's leading insurers and reinsurers, which provides insurance coverage in more than 150 countries.

Our module Warranty

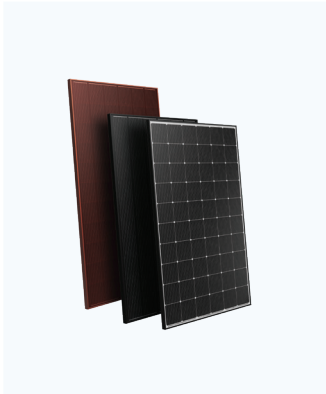
Made In Italy

30 year linear power warranty
30 year product warranty

Half Cell

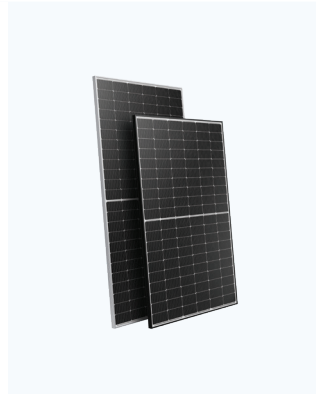
30 year linear power warranty
25 year product warranty

Opt for a unique system



Made in Italy

Manufactured in Castegnato (Brescia).



Half cell

Excellent quality-price ratio.



Inverter On-grid

Equipped with display and monitoring app.

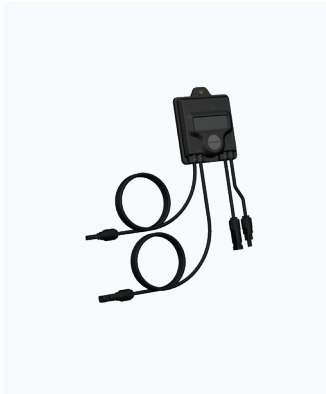


Inverter Storage system

The perfect combination to store energy.



Utilizing the distinctive Peimar system, ensures you have access to a comprehensive array of products and services for your installation. This means you can rely on a sole partner to meet all your requirements.



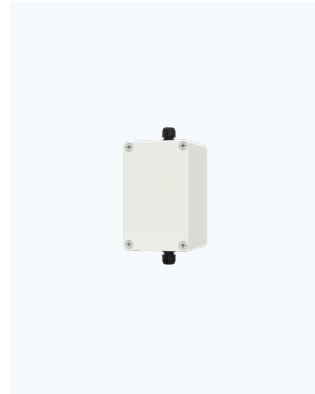
Power optimizers

Can be installed on panels with shading.



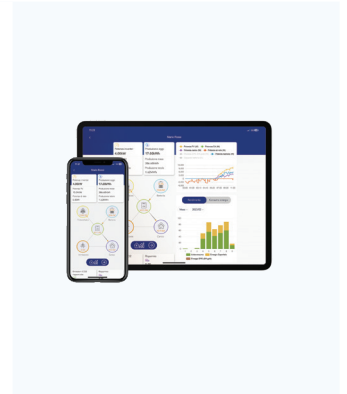
Wall box

It exploits the production of photovoltaic energy to charge electric vehicles.



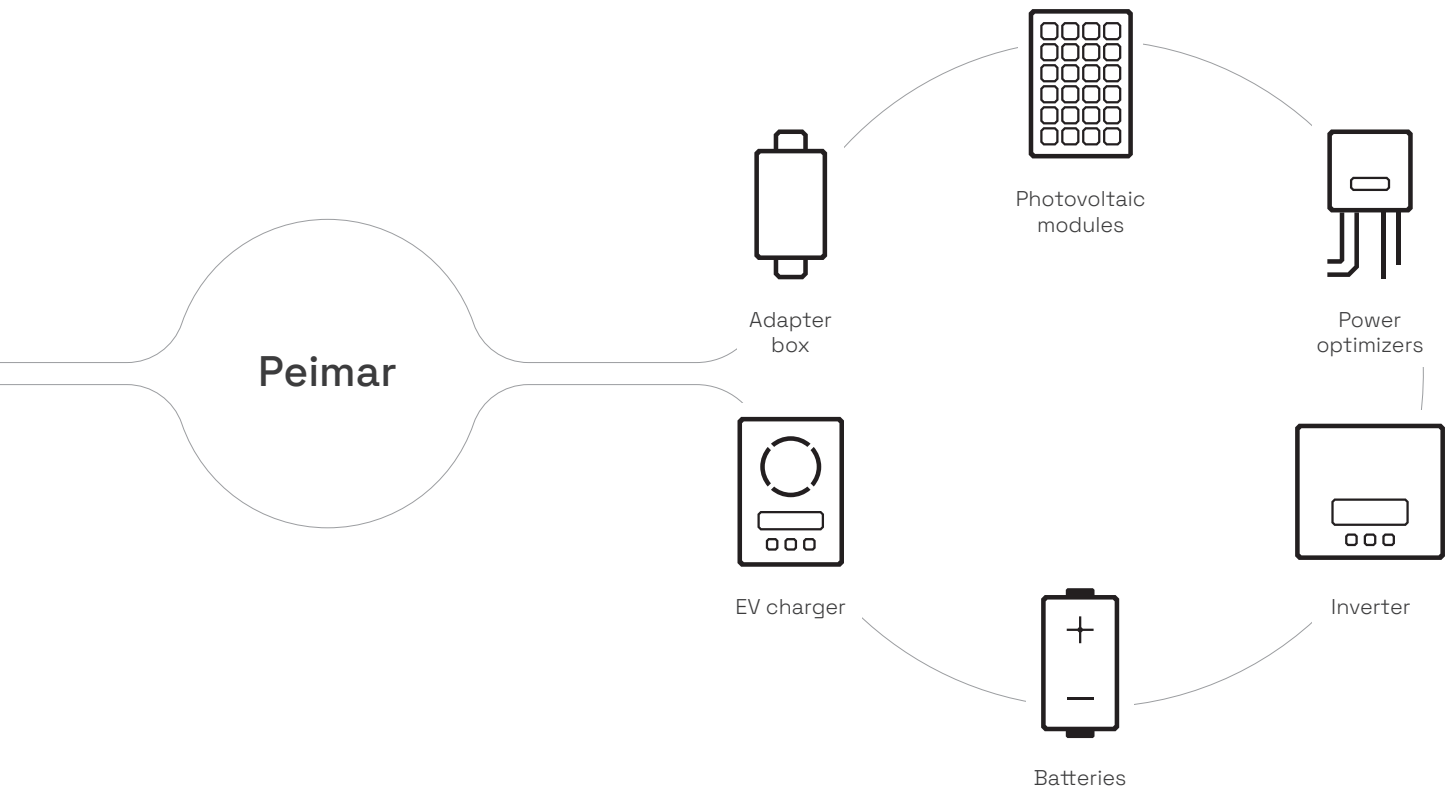
Adapter box

Connects the heat pump to the energy production system.

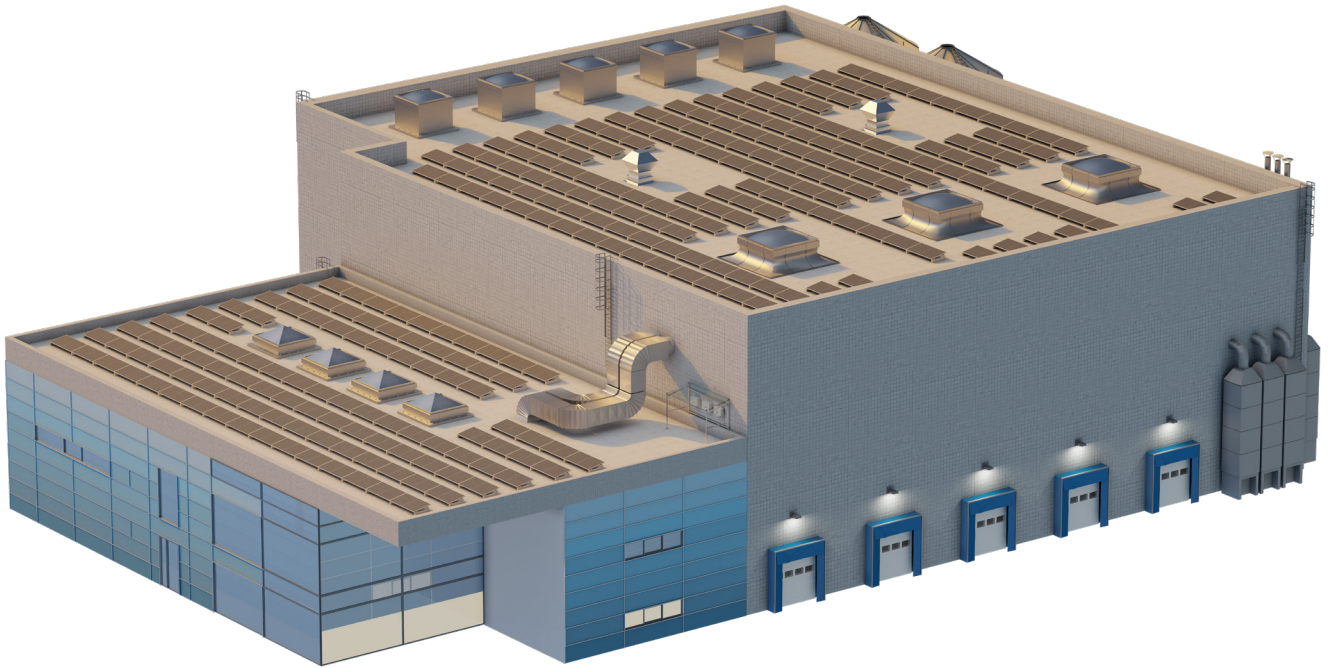


Monitoring systems

A portal that allows the continuous monitoring of your system.



Our service



For your business

By leveraging self-consumption, a 150 kW system enables substantial annual energy savings, leading to a reduction in energy costs.

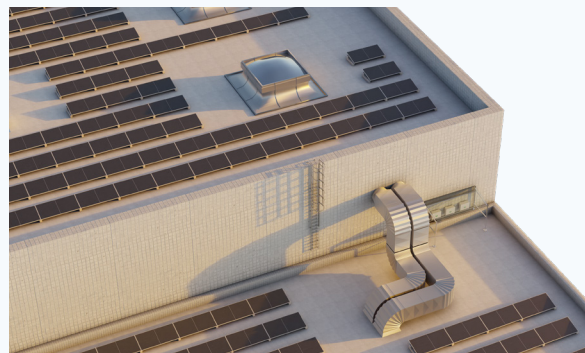


- 270 Half-Cell modules
- 550 W
- 3 Inverter on grid
- 50 kW



Power optimizers

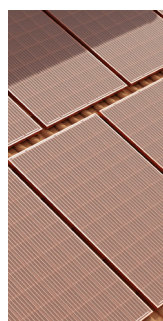
Using our optimizers, directly installable on panels, you can continually oversee your installation's output, tackle shading concerns, and guarantee enhanced energy yield.



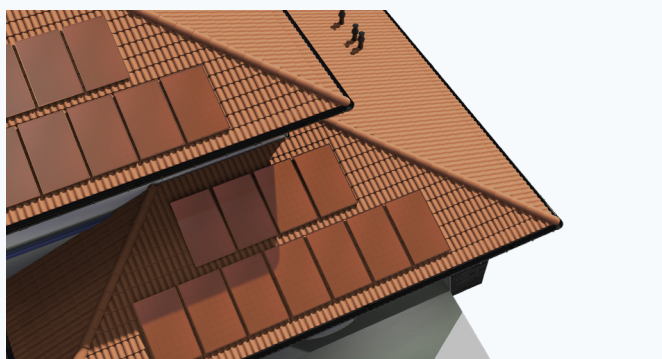


For your home

A 6 kW system, equipped with a storage system, enabling you to store surplus energy.



- 22 Red line modules - 300 W
- 1 Inverter hybrid - 6 kW



- Modular storage batteries
- 1 EV Charger



OR10H545M

HALF CELL LINE

 HALF-CELL MODULE

The 144 Half Cut module of the Import Line combines the high production efficiency of the half cell technology with an excellent quality / price ratio.

The half-cell configuration improves the electrical distribution inside the panel to increase the yield of the product. For these reasons, the Half Cell Line is suitable not only for industrial installations but also for residential and commercial installations.

Celles



144 CELLS
MONO gBB / 10BB M10 HALF | PERC

182 x 91 mm / 7.16 x 3.58"

Frame



COMPACT AND STURDY | 35 mm

ANCHORABLE ALSO ON THE SHORT SIDE ⁽⁵⁾

30 YEAR LINEAR POWER WARRANTY

25 YEAR PRODUCT WARRANTY



PERC TECHNOLOGY



PID FREE



MODULE FIRE PERFORMANCE: **CLASS 1**



ANTI-REFLECTIVE GLASS



QBE INSURANCE
Product Liability Insurance QBE

Electrical Characteristics (STC) ⁽¹⁾

OR10H545M

Nominal Output (Pmax) ⁽²⁾	545 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	41.6 V
Current at Pmax (Imp)	13.11 A
Open Circuit Voltage (Voc) ⁽²⁾	49.9 V
Short Circuit Current (Isc) ⁽²⁾	13.84 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Module Efficiency	21.12%
Protection class against electric shock	Class II

Mechanical Characteristics

Solar Cells	144 M10 HALF monocrystalline PERC
Solar Cells Size	182 x 91 mm / 7.16 x 3.58"
Front Cover	3.2 mm / 0.13" thick, low iron tempered glass
Back Cover	TPT (Tedlar-PET-Tedlar)
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Frame finishing	Silver
Backsheet finishing	White
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	1300 mm / 51.18"
Cables Section	4.0 mm ² / 0.006 in ²
Dimensions	2278 x 1133 x 35 mm / 89.68 x 44.60 x 1.38"
Weight	28.6 Kg / 63.05 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5" ⁽³⁾

Temperature Characteristics

NMOT ⁽³⁾	45±2 °C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.042 %/°C
Operating Temperature	-40 °C - +85 °C

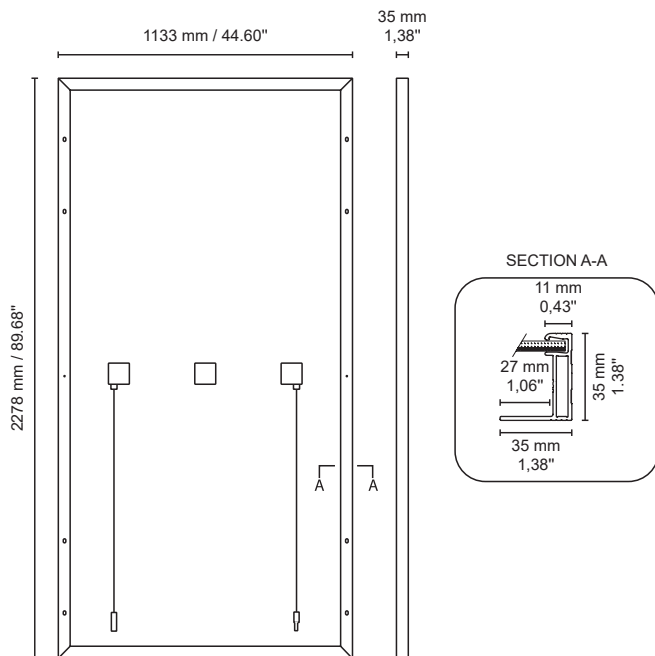
Packaging ⁽⁴⁾

Pallet dimensions	2310 x 1130 x 1260 mm / 90.94 x 44.50 x 49.61"
Pieces per pallet	31
Weight	880 kg / 1940.07 lbs

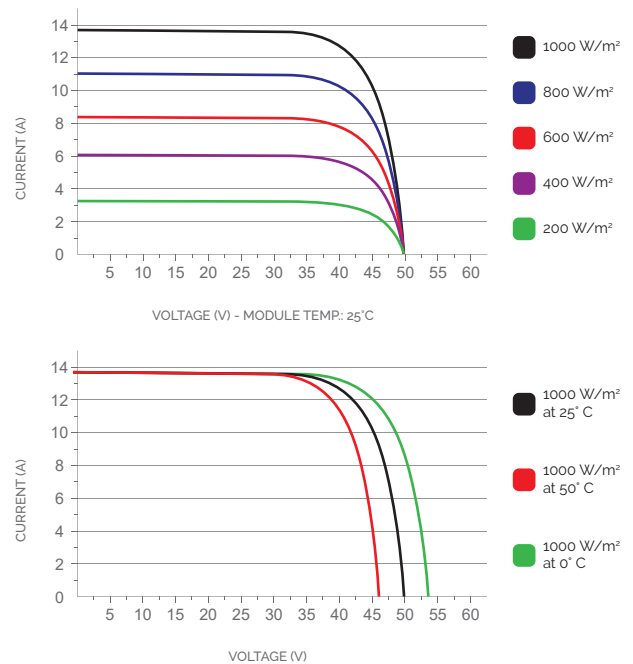
Certifications

Fire Resistance Rating	Class of reaction to fire 1 (UNI 9177)
PID free	TUV PPP 58042B:2015 - IEC 62804-1:2015
Salt mist	IEC 61701:2011
Ammonia	IEC 62716:2013
Dust and Sand	TUV PPP 59022B:2021 - IEC 60068-2-68:1994
Product Certificate	IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1, IEC 61730-2

Dimensions



Current/Voltage Characteristics



1. STC: (Standard Test Condition) Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

2. Pmax, Voc, Isc measurement tolerance: ±3%

3. NMOT: Nominal Module Operating Temperature, Irradiance 800W/m², Air 20°C, Wind speed 1m/s

4. Pallets can be stacked up to two

5. Consult the installation manual for the relative mounting configurations

When it comes to our products, we've got your back.

We provide an excellent technical and commercial support during the installation and configuration process in order to allow the correct functioning of your entire system.



Services and Insurance



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