



# EXERGETICA

Your efficient solution

# Helios PV + Thermal



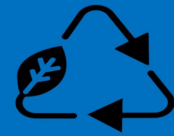
**Producing 100% green electricity and heat**

Deliver green electric and thermal power



**Durability > 15 years**

No maintenance required and high durability



**High Efficiency**

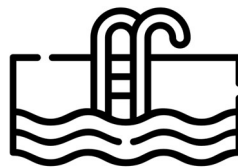
+35% more annual energy production compared to fixe

## Typical Application



**Buildings & Houses:**

Providing electric and thermal power for public buildings, private buildings & houses



**Aquatic Centers:**

Providing electric power and heating thermal power for aquatic centers and swimming pools



**Industry, farms:**

Decentralized power for remote communities

## Technical Data

### Dimension & Weight

Width x Length x Height	4.5m x 4.5m x 2.5m
Weight	Around 700kg including the concrete blocks

### Electrical & Thermal Performance

Electrical power output	1kWe to 5kWe
PV panel efficiency	19% - 21%
Thermal power output	2kWt to 6 kWt
Thermal efficiency	> 75%
Annual overall efficiency	+35% compared to fixed structure

### Equipments

PV panels	JINKO 540W Tiger Pro 72HC (21% efficiency) *Other types are also available and could be proposed upon request
Inverter	SUNON PRO 5.5 kWe/48V + 100a mppt
Battery	Tubular or Lithium (upon request)
Structure	Galvanized structure for Solar Panels Steel for the metal frame Concrete blocks for the base frame
Rotation azimuth tracking	Slew Drive + 24V Electric motor
Elevation tracking	Stepper motor
Cables	Cables AC, DC, 35, 16, 6, 4 mm
Protection	DC breaker 2P 125 A, 4xAV Breakers 2P 40, 32A. Meter, SPD DC, SPD AC. Changeover Switch 63A, Voltage Protocol Relay

## Installation

Installation Kit	MDB, cable glands, straps, tape, labeling tape, cable Lug, heat shrink, bootlace ferrule
Service	Installation and Testing (Inverter, Battery, PV). Rewiring electric cables PM, Configuration and Acceptance
Grounding System (Earth) <i>(optional)</i>	3 copper rods + clamps, 2copper bus bars 10cm width Accessories, 16mm grounding cable with lugs Betonite powder, SPD AC 2P, SPD DC 2P

## Operating Conditions

Ambient air pressure	Atmospheric
Air temperature	-30°C to 45°C
Service interval	> 25000 hours <i>*Cleaning the PV panels and the mirros each month is recommended</i>

## After Sale

1 Year Unlimited Phone Support	Included
On Site System Traning	Included
Site Visit Support	Included

