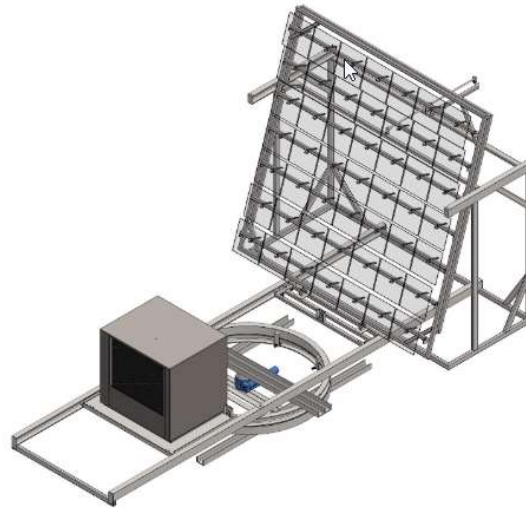




EXERGETICA

Your efficient solution

Helios e-Thermal Battery



A friendly environmental machine that doesn't require batteries



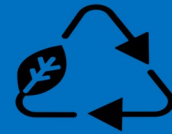
Producing 100% green electricity and heat

Deliver green electric and thermal power



Durability > 15 years

No maintenance required and high durability



High Efficiency

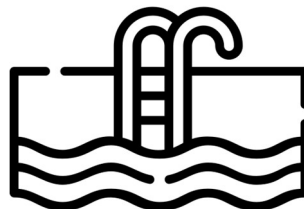
+35% more annual energy production compared to fixe

Typical Application



Houses:

Providing electric and thermal power for public or private building & 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 3.5m x 3.5m x 3.5m

Weight Around 800kg

Electrical & Thermal Performance

Electrical power output 1kWe to 3kWe

Machine efficiency 8% - 12%

Thermal hot power output 4kWt to 8kWt

Thermal cold power output 2kWc to 6kWc

Thermal efficiency > 75%

Annual overall efficiency +35% compared to fixed structure

Equipments

Thermodynamic machine Organic Rankine Cycle machine

Storage system Water / coolant tank (adjustable volume)

Inverter SUNON PRO 5.5 kWe/48V + 100a mppt

Structure Galvanized structure for Solar Panels, Steel for the metal frame and 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 mirrors each month is recommended</i>

After Sale

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