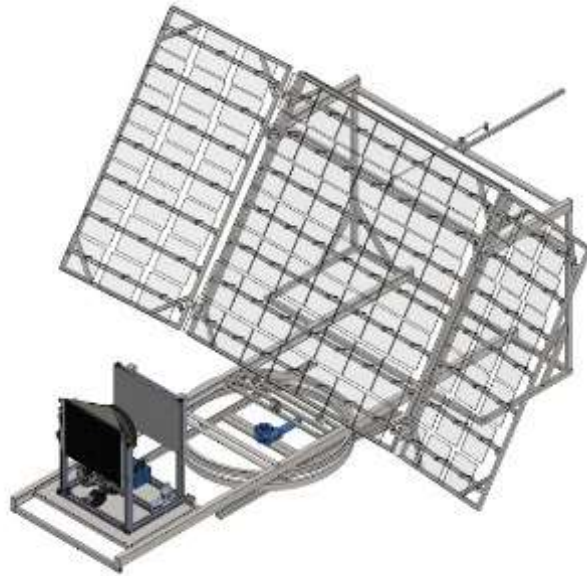




EXERGETICA

Your efficient solution

Helios TurboGen



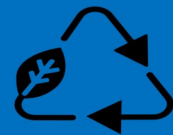
Producing 100% green electricity and heat

Deliver green electric and thermal power



Durability > 15 years

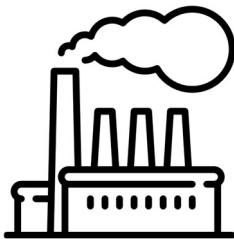
No maintenance required and high durability



High Efficiency

+35% more annual energy production compared to fixe

Typical Application



Industry:

Providing high efficient electric and thermal power for industry



H2 and efuel production:

Providing high efficient electric power for H2 and efuels production



Farms - Biogas:

Decentralized power for remote communities

Technical Data

Dimension & Weight

Width x Length x Height 4.5m x 4.5m x 3.5m

Weight Around 800kg

Electrical & Thermal Performance

Electrical power output 3kWe to 7kWe

Machine electric efficiency 28% - 34%

Thermal hot power output 5kWt to 10kWt

Thermal cold power output 6kWc to 14kWc

Thermal efficiency > 70%

Annual overall efficiency +35% compared to fixed structure

Equipments

Thermodynamic machine Micro-turbine turbogenerator

Combustion chamber* Optional (Low emissions burner for extended operation at night and during cloudy weather)

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

Structure Galvanized structure for mirrors
Concrete blocks for the frame

Rotation azimuth tracking Slew Drive + 24V Electric motor

Elevation tracking Stepper motor

Cables Cables AC, DC, 35, 16, 6, 4 mm

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
Protection	DC breaker 2P 125 A, 4xAV Breakers 2P 40, 32A. Meter, SPD DC, SPD AC. Changeover Switch 63A, Voltage Protocol Relay

Operating Conditions

Ambient air pressure	Atmospheric
Air temperature	-30°C to 45°C
Service interval	> 25000 hours *Cleaning the mirrors each month is recommended

After Sale

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