



MODULAR ELECTRONICS
MODTRONIX 4.0

CONTACT@SINNPOWER.COM

SINN POWER GMBH

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Founded in 2014

EMPLOYEES

15 FTEs & 20 academics

LOCATIONS

Gauting, Germany (Headquarters), Iraklio, Greece (R&D Facility)

DEVELOPMENT FOCUS

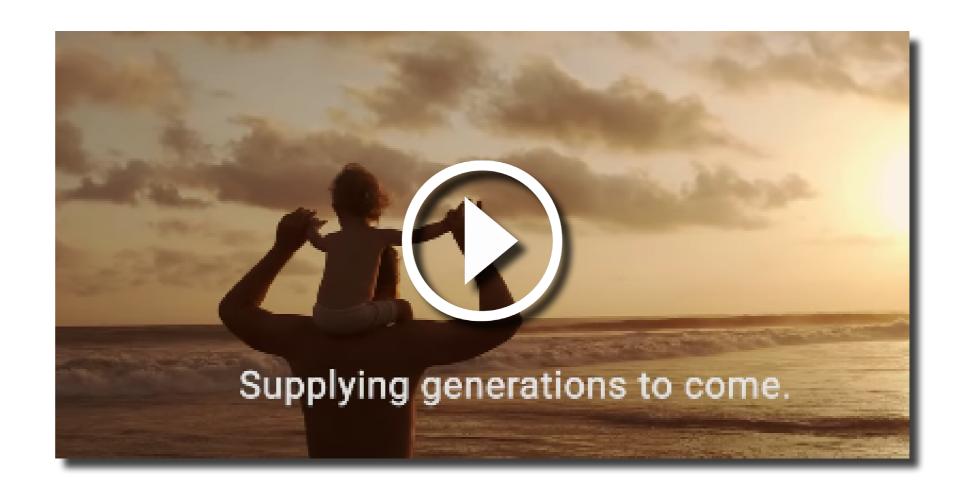
Maritime Engineering (Floating Structures)
Modular Power Electronics (IP68 Rating)

CONTACT

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WAVE ENERGY CONVERTER

STRUCTURE WEC

Wave Energy Converters for fixed structures

AREAS OF APPLICATION

Ports (Breakwater Walls)
Oil & Gas (Offshore-Platforms)

TECHNICAL DATA

Installed Power: 20 kWp - 40 kWp

Length of lifting rod: 10 m Floating Body Diamter: 2.5 - 3.5 m

ELECTRIC OUTPUT

Output Voltage: 400VAC / 800VDC

POWER ELECTRONICS

SINN Power ModTroniX

MTX E-Machines, MTX MotorDrives MTX DCDC Converters, MTX DC AC Inverters





OCEAN HYBRID PLATFORM

FLOATING OHP

Modular, multi-purpose platform for ocean based energy production and infrastructure development. All components shippable in ISO containers.

AREAS OF APPLICATION

Renewable energy production (Wave, Wind, PV) Aquacultures Floating infrastructure

TECHNICAL DATA

Smallest floating unit: 12m x 12m Largest floating unit: 108m x 108m

Floating Body Diameter: 3.5m Max. Wave Height: 6m - 10m

RATED POWER

 $\begin{array}{lll} \text{OHP Wave:} & 0.7 \text{ kWp / m}^2 \\ \text{OHP Wind:} & 0.15 \text{ kWp / m}^2 \\ \text{OHP PV:} & 0.15 \text{ kWp / m}^2 \\ \text{OHP Full Hybrid:} & 0.8 - 1.0 \text{ kWp / m}^2 \end{array}$

POWER ELECTRONICS

SINN Power ModTroniX









OHP Wave

OHP Wind

OHP PV

OHP Full Hybrid



PROJECT DESCRIPTION

SINN Power OHP PV demonstartion project at the R&D site in Heraklion (GRE) is currently being installed and begin of operations is plannend in **Q3 2020**

PROJECT LAYOUT

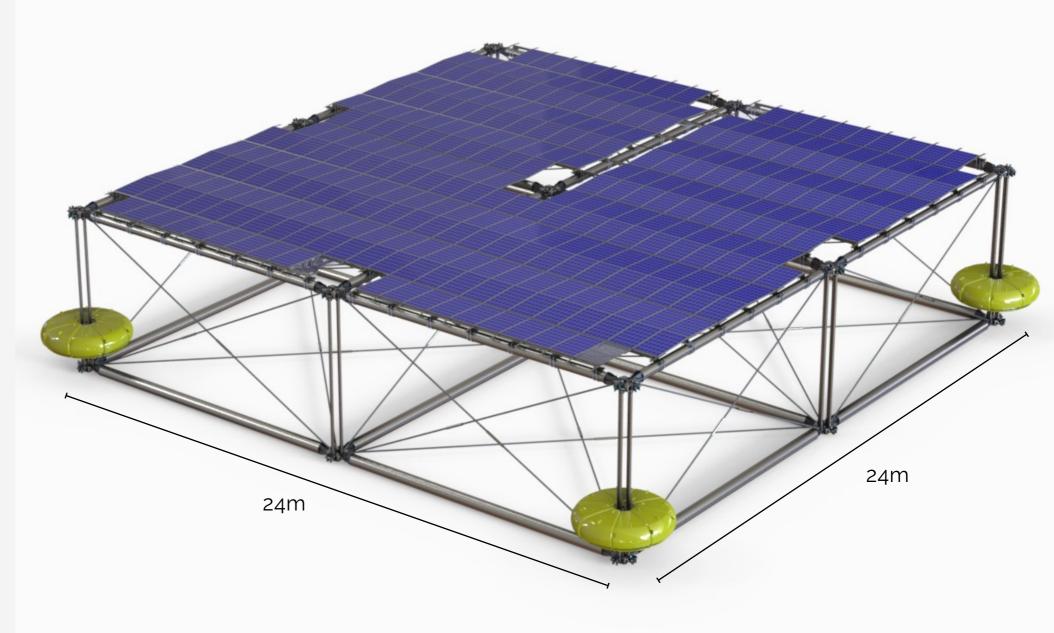
3x3 floating bodies = 576m² 80kWp installed PV capacity 800VDC land-line to 24kWh SINN Power Storage (MTX) 400VAC grid connection (20kWp)

PROJECT EXTENSION

March 2021: 50kWp Wind Turbines (5 x 10kWp)
March 2022 160kWp Wave Energy (4 x 40kWp)



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IP 68

800 VDC

ELECTRIC MACHINES

- 5kW 20kW @ 1000rpm
- 5kW 20kW @ 8000rpm

POWER ELECTRONICS

- 7.9kW 20.7kW Inverters
- 20kW DC Converters
- 5kW 20kW MotorDrives

STORAGE

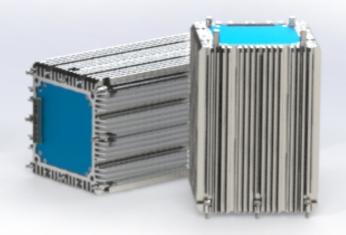
- 4.8 kWh 24kWh LFP Storage
- XL SuperCap Buffer

POWER UPS

- Power-Off Brakes
- Heavy Duty Shafts & Bearings
- Integrated PLC









IP68

The IP68 rating guarantees: Protection from contact with harmful dust and protection from immersion in water with a depth of more than 1 meter.

EFFICIENT

By using the latest components, SINN Power's MTX modules gurantee highest efficiencies at competitive prices.

SMART

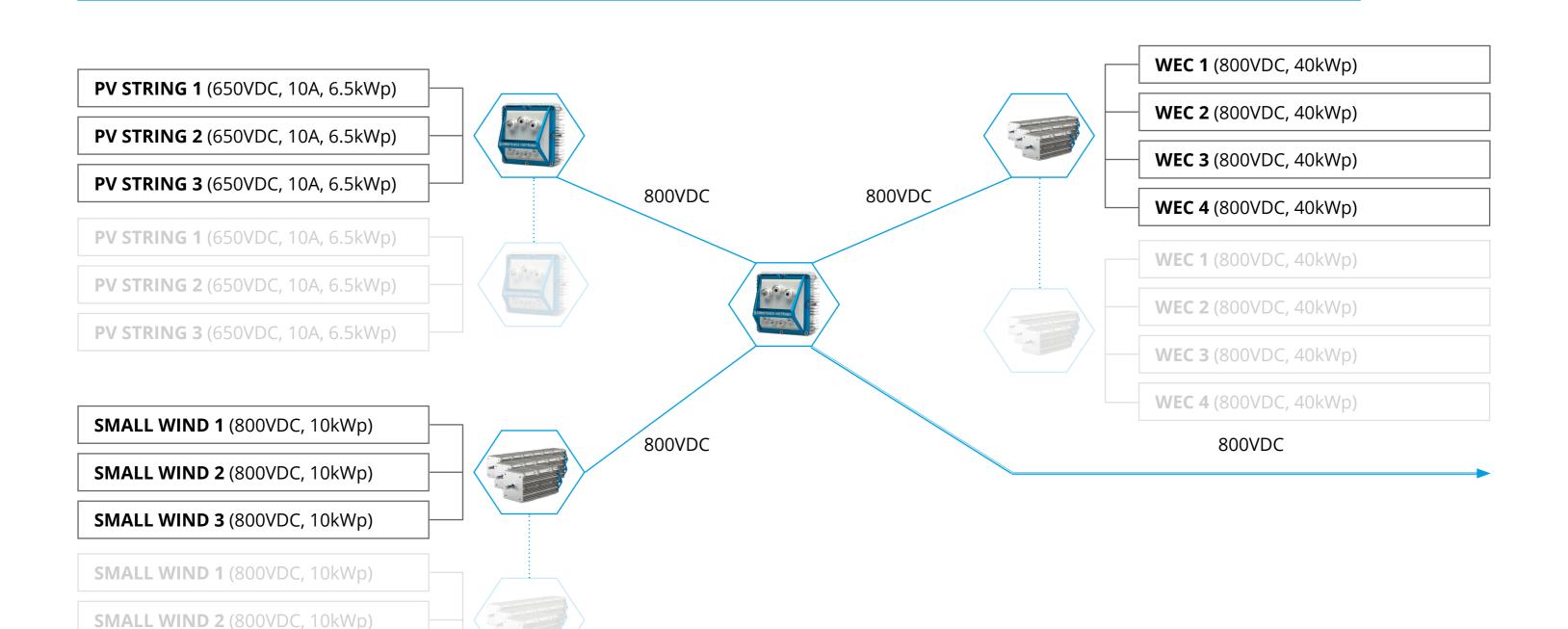
All modules are equipped with powerful microcontrollers which process and manage data accros the entire system, enabling remote monitoring and maintenance via smartphone or web application.

MODULAR

SINN Power's patented housing not only accounts for the IP68 rating, but also great system flexibility. All modules can be either stacked or cabled, systems can be enlarged and single components can be hot-swapped.

SMART GRID - OHP

SMALL WIND 3 (800VDC, 10kWp)





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