



TK NEW ENERGY

FLOATING PHOTOVOLTAIC (FPV) SYSTEM





TK NEW ENERGY

Tonking New Energy

Your Reliable and One-stop Floating System Solution Provider

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PROJECT CASES



Jiangshan, Zhejiang Installed Capacity: 20MW COD: 2017



Baise, Guangxi Installed Capacity: 30MW COD: 2018

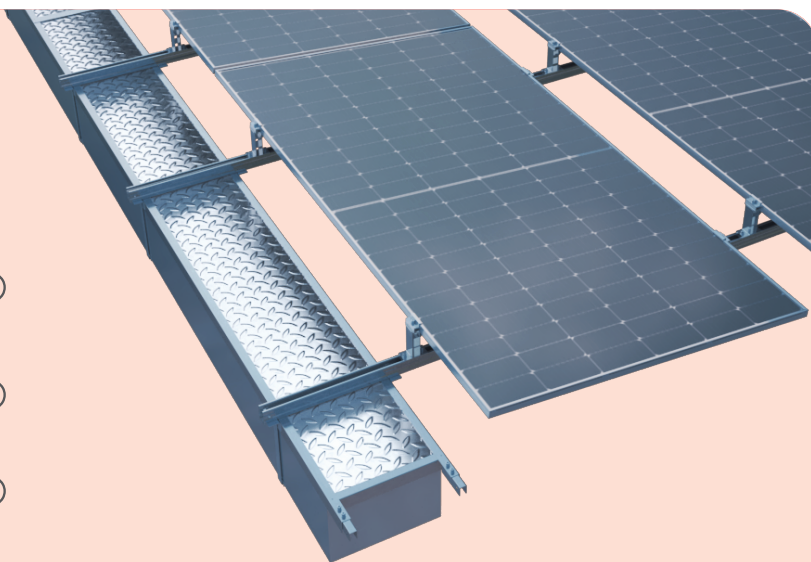


Laibin, Guangxi Installed Capacity: 42MW COD: 2021



Bintan Island, Indonesia Installed Capacity 10MW COD: 2024

FLOATER



NO.	COMPONENT	MATERIAL	WARRANTY
①	Filling Foam	Expanded Polystyrene Foam	25 Years
②	External Wrapping	Stainless Steel	
③	Anti-slip Upper Panel	Super Dyma	

ADVANTAGE

- ✓ Never Sink
- ✓ Food-grade environmental-friendly materials
- ✓ Anti-seep, and flame resistance
- ✓ Quick and easy Installation
- ✓ Anti-slip surface
- ✓ Anti-corrosion, anti-aging

TEST

SGS

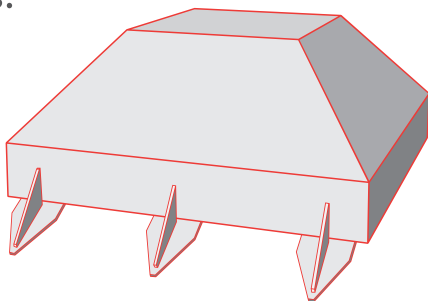


- ✓ Water Quality Test
- ✓ Flame-resistance Performance
- ✓ Bending Fatigue Test
- ✓ RoHS
- ✓ Salt Mist Corrosion
- ✓ Tensile Test

ANCHORING SYSTEM

Patented Anchor-Block Design

Features:



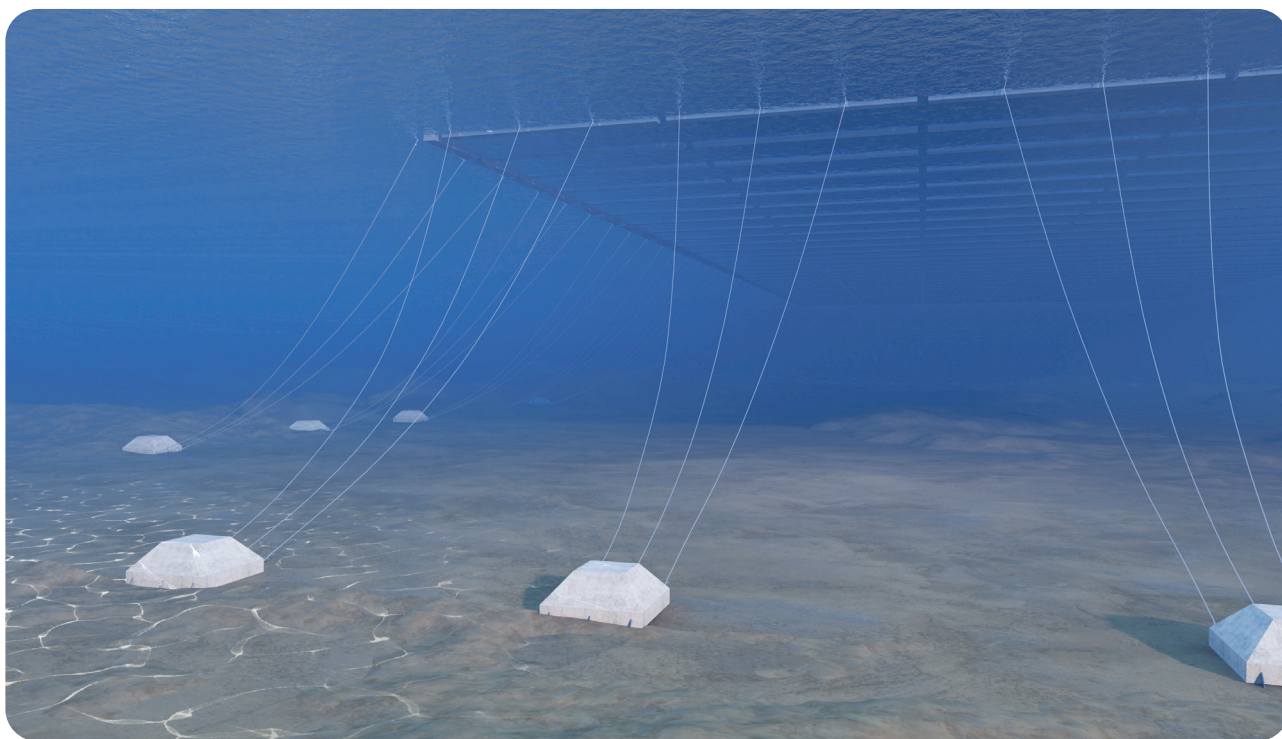
Equipped with 3 anchor claws on two sides



Casting models available



Improve grip strength



STEPS TO SELECT THE RIGHT ANCHORING SYSTEM

1.

Gather data on water depth, soil type, wind/water wave conditions, and water level fluctuations.

4.

Confirm the anchoring system layout.

2.

Analysis of water flow force or model wind tunnel experiment.

5.

Extreme condition reliability analysis of coupled hydrodynamic loads and anchor chain systems.

3.

Compare different anchoring systems based on site conditions and project requirements.

6.

Assessment of the safe distance of matrix.

FPV SYSTEM SOLUTION

Through continuous product technological innovations, TK New Energy has successfully developed its 5th floating photovoltaic (FPV) system to date. The latest system represents a culmination of engineering advancements in buoyancy optimization, modular design, and environmental adaptability.

NO.	PART 1	PART 2	PART 3
COMPONENT	Panel Unit	Aisle	Inverter
UNIT WEIGHT (6modules + racks+ floaters)			300kg
UNIT BUOYANCY			>450kg

Advantage:



Modular Design



Reliable and Stable
Structure



Resistance to Strong
Wind and Water Wave



Power Generation
Improvement

LAYOUT

Herringbone Double Row Layout



Herringbone Quadruple Row Layout



South-facing Layout



CABLE



S-shaped

Dapt To Array Shifting In Real Time

Suitable various cable specification
and water environment

