



XIAMEN BROAD NEW ENERGY TECHNOLOGY CO., LTD

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SF-FPV Floating Solar PV mounting system

Overview:

Floating PV system is tailor-made for man-made water bodies(reservoirs, hydropower reservoirs etc.), industrial ponds(cooling ponds, wastewater-treatment ponds, mining and quarries water bodies), agriculture ponds, lakes, continental sea and offshore environment etc. This design platform benefits for solar yield and the reduction of land occupied compared to ground mounting system. Sun Floating FPV systems have designed three-type patterns of pure-floats-FPV, aluminum-floats-FPV and steel-floats-FPV for the needs of customers. It features of high efficiency and lower cost of solar project installation

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Advantages of floating PV system

1.Convenient operation and maintenance to uncovered panels

2.Save water resources by reducing water evaporation;positive effect on water quality of less algae growth

3.Big arrays scalable in any size for large lakes and other water bodies

4.High-efficient and convenient installation for shorter construction period5.Higher returns of PV investmentHigher power energy yield by lower module temperaturesSave the land and shorten payback period of investment for lower leasing and installing cost



Range of application

man-made water bodies(reservoirs, hydropower reservoirs etc.), industrial ponds(cooling ponds, wastewater-treatment ponds, mining and quarries water bodies), agriculture ponds, lakes, continental sea and offshore environment etc

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man-made water bodies



lakes



industrial ponds



continental sea



agriculture ponds



offshore environment etc

SF-FPV Product advantages



Environmentally friendly HDPE material

 (BS6920) and long lifespan for use
 Excellent material performance of tensile strength and impact resistance
 High corrosion resistance, anti-ultraviolet, anti-freezing and other erosion.
 Multi-module and free-combined design for multi-solutions to complex water bodies
 Multi-sizes of solar panels suitable for our

products

6.Easy installation, convenient maintenance and short construction cycle.

7.10 years warranty and more than 25 years duration for products.

Product Floating PV System Reservoirs, lakes, continental sea etc. Application Panel Tilt Angle 5°, 10°, 15°/Custom Extreme Wind Speed (M/S) 45m/s 900 N/m2 Snow Load ≧1m Average Water Depth(M) Framed/frameless Panel Design Landscape/single row/double rows Layout Requirements 1640mm-2384mm Length of PV Panels Width of PV Panels 992mm-1303mm IIS C8955:2017, AS/NZS 1170, DIN 1055; International Building Code: IBC **Design Standards** 2009; California Building Code: CBC 2010; ASCE/SEI 7-10 HDPE **Buoys** AL6005-T5/Q235B **Brackets** SUS304 Fasteners This design is with 4 floats for combination. the buoyancy of Buoyancy short-float is more than 159kg/mm2; the middle 163kg/mm2; the long 182kg/mm2; and main float to panels more than 120kg/mm2 10 years warranty and more than 25 years duration for products. **Quality Guarantee**

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Technical Specification

Production Process

Floating PV mounting system



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Raw material



molding



Machine



Packing



Production



delivery

SF-FPV Components

		Main Floater
		M8*60 Hex Bolt Kit
Portrait Walkway Floater A	Portrait Walkway Floater B	Landscape Walkway Floater
0-00	(2)	6353
Connecting Plate A	Connecting Plate B	Connecting Plate C
90 Washer	M8 Washer	¢ 85*36 Nut
Back Support Leg 5 Degree	M8 Washer	¢ 75*140 Bolt

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Project Reference



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