CLAIMS

1. A support array of a floating power generation system, wherein the support array has a grid shape and comprises:

a plurality of first coupling beams (1) spaced from each other; and

a plurality of second coupling beams (2) spaced from each other,

wherein the first coupling beam (1) is connected to the second coupling beam (2); the first coupling beam (1) comprises a plurality of connected floating bodies (11), the second coupling beam (2) comprises a plurality of connected tubular beams (21); and the tubular beams (21) are mounted to the floating bodies (11);

wherein the first coupling beam (1) extends in a longitudinal direction, an upper surface of the floating body (11) is provided with a mounting groove (111) extending in a lateral direction, and the tubular beam (21) is mounted in the mounting groove (111);

wherein mounting positions are provided at both ends of the mounting groove (111); and

the floating power generation system comprises a photovoltaic module (3) and a combiner box (4), and the mounting position is configured to mount a photovoltaic support (31) of the photovoltaic module (3) and a confluence support (41) of the combiner box (4);

wherein the mounting position is a mounting plate (112) provided with mounting holes (112a); and

at least two lateral ends of a lower surface of the floating body (11) have bevels (113) that gradually incline upward from inside to outside.

2. The support array of a floating power generation system according to claim 1, wherein a groove bottom of the mounting groove (111) is provided with a reinforcement structure (111a).

3. The support array of a floating power generation system according to claim 1, wherein both ends of the floating body (11) are provided with lugs (114), and two adjacent floating bodies (11) are connected via the lugs (114).

4. The support array of a floating power generation system according to claim 3, wherein in the lugs (114) on both ends of the floating body (11), the lug (114) at one end protrudes

longitudinally from the floating body (11) to form an outer lug (114a), and the lug (114) at the other end does not protrude longitudinally from the floating body (11) to form an inner lug (114b); and

for two adjacent floating bodies (11), the inner lug (114b) of one floating body is connected to the outer lug (114a) of the other floating body, and adjacent end portions of the two adjacent floating bodies (11) are abutted after the two adjacent floating bodies are mounted together.

5. The support array of a floating power generation system according to claim 3, further comprising: an anchoring device,

wherein the anchoring device comprises a longitudinal anchoring truss (5) and a lateral anchoring truss (6); and

the longitudinal anchoring truss (5) is mounted to the lugs (114) of the floating body (11) of the same first coupling beam (1), and the lateral anchoring truss (6) is mounted to the lugs (114) of the floating body (11) of two first coupling beams (1) spaced longitudinally.

6. The support array of a floating power generation system according to claim 1, wherein two lateral ends of the floating body (11) each are provided with a groove (115) extending in an up-and-down direction.

7. The support array of a floating power generation system according to any one of claims 1 to 6, wherein the second coupling beam (2) further comprises a cover plate (22), and two ends of the cover plate are respectively connected to two longitudinally adjacent tubular beams (21).

8. The support array of a floating power generation system according to claim 7, wherein a connection member (23) is arranged between two laterally adjacent tubular beams (21), and the tubular beams (21) are hinged to the connection member (23).

9. A floating power generation system, comprising: a support array, wherein the support array is the support array of a floating power generation system according to any one of claims 1 to 8.

10. The floating power generation system according to claim 9, further comprising:

a photovoltaic module (3); and

a combiner box (4),

wherein the photovoltaic module (3) and the combiner box (4) are both mounted to the first coupling beam (1), and a cable laying channel (42) is formed between the mounted combiner box (4) and the corresponding first coupling beam (1).