

CHI FU NO.1 — SHIP OF THE YEAR 2019 in Taiwan



Taiwan SNAME

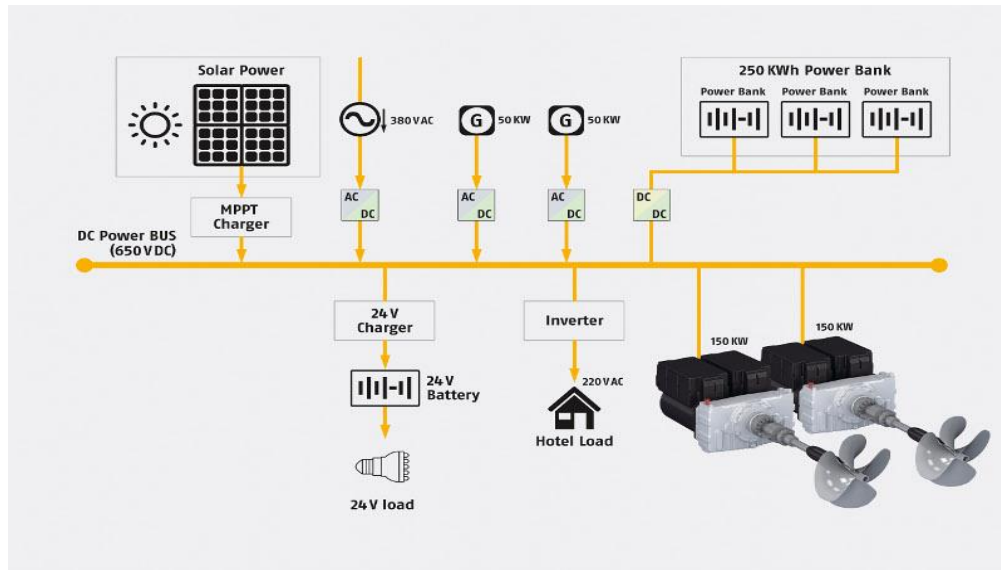


Asia's first electric ferry "CHI FU NO.1" uses lithium battery and solar energy as its main source of power. She was designed by Ship and Ocean Industries R&D center and manufactured by Tinghai Shipbuilding in full accordance with the operational needs of the user, Kaohsiung City Shipping CO. Ltd.

Different from traditional diesel ferry, CHI FU NO.1 sails without fumes and emissions, passengers can enjoy a quiet and comfortable trip between Qijin and Gushan ferry station. Outside are smiling Kaohsiung bear paintings and inside are bright and airy decks, let people forget the busyness and pressure of life, just feel the breeze and vastness of the sea in a comfortable trip.



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The length, Width and Draft of “CHI FU NO. 1” is 25, 6.5 and 2 meters. She can carry 150 passengers and 50 motorcycles. With the electric propulsion system and the new line shape, the horsepower demand is reduced by more than 30% and fuel is about 65,000 liters compared with the previous diesel ferries. The power system includes:

1. Two set of motor systems from BAUMUELLER Germany, each set has two motors and can provide 200 kW power, the top speed of this ferry is 12 knots.
2. 204.8kWh lithium-iron battery pack, supports 4 hrs operation in cruising speed 6 knots.
3. 10kW of solar power system on ceiling, which can increase the sailing time of pure electric.
4. For safety issue, there are two 65kW diesel generators.

