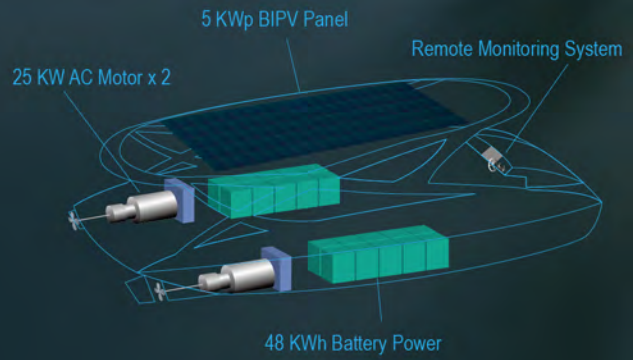
AIDE Energy
New Thinking Better Life

Solar-Powered Super Yacht e-Boat

Less Demand for Batteries

Solar Charging Efficiency Enhanced

Total Performance Improved



FEATURES SPECIFICATIONS

Cruise Range	8 hrs @ 5 knots (0.39KWH/KM)	Dimension	13.0 (L) X 4.5 (W)
Electric Motor	25 KW AC/200V x 2、1000 rpm	Weight	7 .0 tons
Energy Source	Solar Charging, Onshore Grid Power	Passengers	2 Crews, 24~42 passengers (included 2 handicapped seats)
Lighting	LED Lamps (included underwater light)	Navigable Area	Canals, River, Lakes, Harbors
Solar Panel	5 KWp (21 pcs)	Speed	Cruise Speed 5 knots、Max. Speed 10 knots
Battery Pack	48 KWh $LiFePO_4$ Battery Pack	Noise Level	70~75 db @ 6 knots
Charging Time	8 hrs		

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PANJIT GROUP

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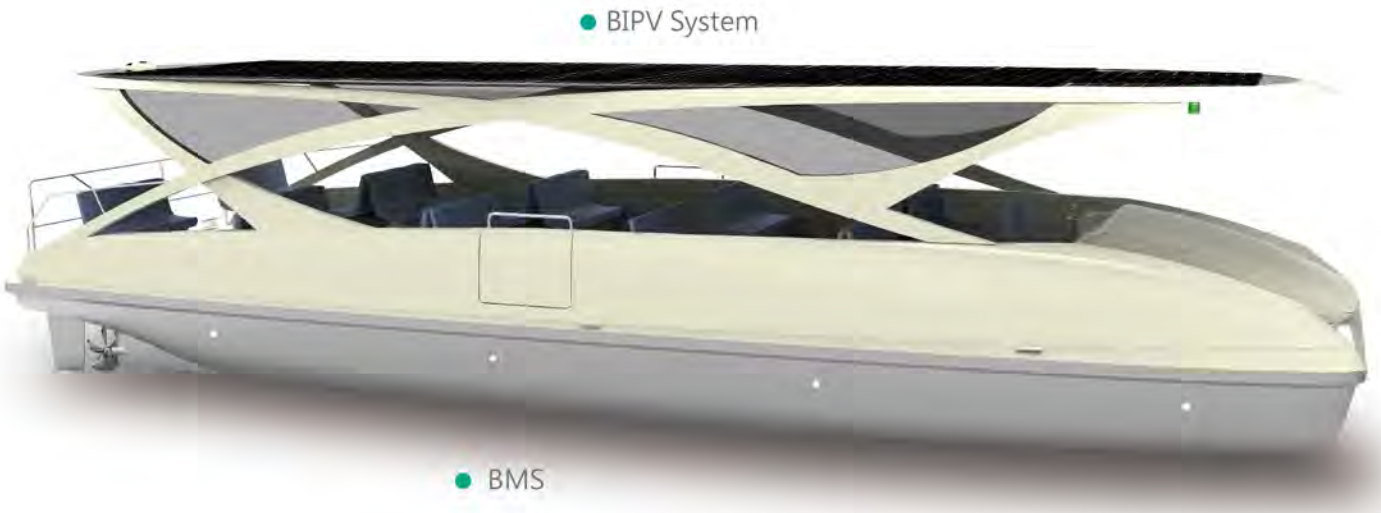


BIPV Solar Panel


High Efficiency Solar Charger


Waterproof Battery Cabin (IP65)


Graphical HMI

Features

•Distributed solar MPPT (Maximum Power Point Tracking) charger. Can get the maximum possible power from photovoltaic panels.

•Battery cycle life: 2000 cycle (@100% DOD).

•Communication protocol: CAN Bus (2.0B) & RS485 (Modbus RTU).

•Integrate electromechanical system & BMS (Battery Manager System), provide utmost safety and efficiency performance.

•Low noise during voyage (70db), No air pollution, powered by cutting edge technology of LiFePO4 battery.

•24V power system provide dynamic power adjustment, energy saving, reliability improving.

•Smart power management, Less demand for battery installment and cost saving.

•Friendly user interface: The information presented graphically.

BIPV System (Building-integrated photovoltaics)

•Solar modules direct charge to power batteries.

•Charging Efficiency is above 94%.

•More cosmetic & transparency concern than standard PV panel.

•A perfect match for PV panels and sunshades.

•Empower distributed management capability, each solar panel has dedicated charger with MPPT function.

•Each solar charger (SC) featured with MPPT.

BMS (Battery Management System)

•Manage all the battery cells' voltage, temperature, and capacity status.

•Manage battery system's current, SOC (Status of Charge) and SOH (Status of Health).

•SD (Safety Disconnection) module prevents shortage, leakage, collision and other dangerous.

•When the battery was fully charged, each battery cell voltage difference is < 10 mV and max, and current is no more than 2.0 A .

•Protect each battery cell voltage between 2.50 ~ 3.90 V under any circumstance.

•Using the battery system at higher voltage to directly charge the 24 V battery .

•BMS communicates within system via CAN Bus & externally via CAN Bus & RS485/232.