

MODEL : AIO-20

HYBRID POWER STATION



Design Standards

AIO® is a new range of secure integrated hybrid power station. With diesel generator, solar power, battery storage, wind turbine and hybrid solar inverter in one secure unit.

AIO® is mainly developed for residents Power, Reduce the dependence on Main Power and decrease the consumption cost.

Benefits

- Integrated installation, convenient storage and transportation;
 - High return on investment and quick return;
 - Simple operation and easy maintenance;
 - Power and Capacity can be expanded, meet different user needs;
- Accept customer customization, suitable for various scenarios;

Warranty

- Battery Performance: 2000 cycles(80% DOD) or 2 years after manufacture;
- Generator: 18 months after manufacture or 1500 hours running time;



General Specification

Model	AIO-20
System Rated Output Power	20 kVA
Rated Output Voltage	400V/230V@50Hz/60Hz,3ph. (According to customer requirements)
Min.Battery Storage Capacity	20 kWh
Max.Battery Storage Capacity	40 kWh
Output Terminals	Copper terminals & CEE 32A/5P Socket
Expand Dimension(W*D*H)	5900*6350*7000mm
Loading Dimension(W*D*H)	3950*2280*2230mm
Net.Weight	2800kg
Loading Capacity of 40'HC	3 units
Discharge Temperature Range	-20℃~50℃



SOLAR PANEL

MAX.POWER:

5040_W

With **HIGH EFFICIENCY**

UP TO **21%~!!**

GENERATOR
RATED POWER: 10kW

With **LOW CONSUMPTION**
DOWN TO **3.7 L/H~!!**

INTELLIGENT INVERTER

ONE PIECE FOR
SOLAR & BATTERY
& **GRID**
& **GENERATOR**

Fits the practical application & guaranteed by high-quality manufacturing technology



Generator Set

Prime Power	13 kVA
Fuel Consumption	3.7 L/h@100% load
Fuel Type	Diesel(Nature Gas Engine for option)
Fuel Tank Capacity	24 hours
Base Functions	Automatic Start-up / Alarm / Automatic Stop / Emergency Stop / Load Management

Solar Panel

Maximum Power	420W
Power Tolerance	0~+5W
Qty.	12pcs

Energy storage battery

Cell Type	LFP(LiFePO4)
Pack Model	MF51100D
Pack Capacity	5 kWh
Pack Rated Voltage	51.2 VDC
Discharge Depth	90%
Charger/Discharge Current	97.7 A(1.0C)
Battery Rack Voltage	43.2V~59V
Rated Cycle Life	≥2000 (80% DOD)

Hybrid Inverter System

Solar Controller	MPPT*4 ways
AC Voltage Range	380~415Vac
Max.Charge/Discharge Current	420A
Max.Conversion Efficiency	97.6%
Rated Output Power	20kVA(0.8leading~0.8lagging)

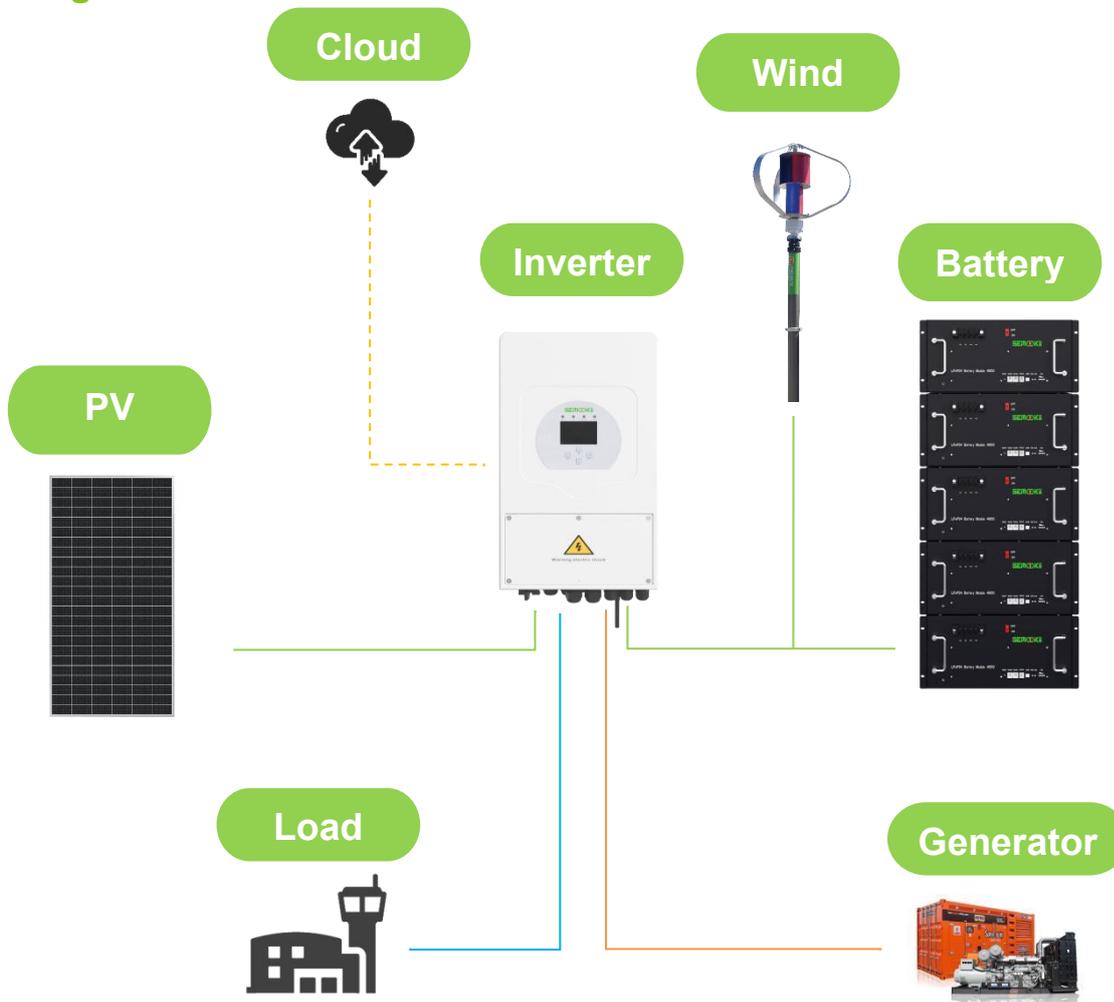
Wind Turbine

Rated Power	400W*2pcs
Stand Running Condition	Start-up wind speed>2m/s;Rated wind speed>10m/s;Survival wind speed<45m/s

Options

Engine	Alternator	Fuel System	Hybrid Power Station
Water Jacket Preheater Oil Preheater Oil manual pump	PMG excitation Space heater Winding temperature measuring	12 / 24 hour base tank Bunded fuel tank External fuel tank Automatic fuel feeding Switch between external tank and base tank (three-way valve)	Deepsea, ComAp, Smartgen etc. controller Trailer Tools with the machine

Basic Logic



Power Priority	Highest	Secondary	Back Up
Functions	PV Take load/charge	Battery Take load	Generator Take load/charge



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