

HYBRID SOLAR WIND GENERATOR

ALL-IN-ONE POWER STATION

MODEL : BL-AIO-20



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

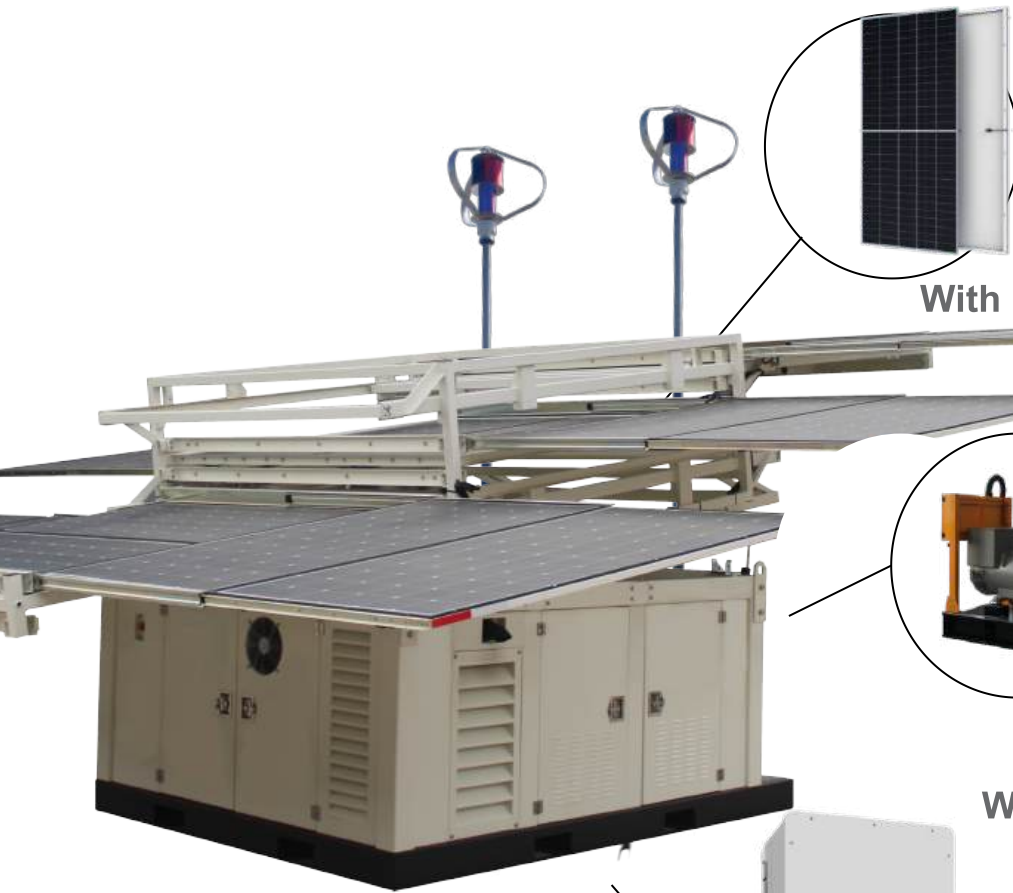
Battery Performance: 2000 cycles(80% DOD) or 2 years after manufacture;

- Generator: 18 months after manufacture or 1500 hours running time;



General Specification

Model	BL-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°C~50°C



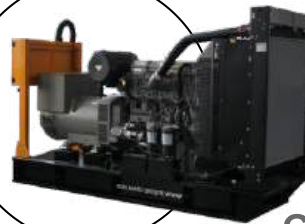
SOLAR PANEL

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)

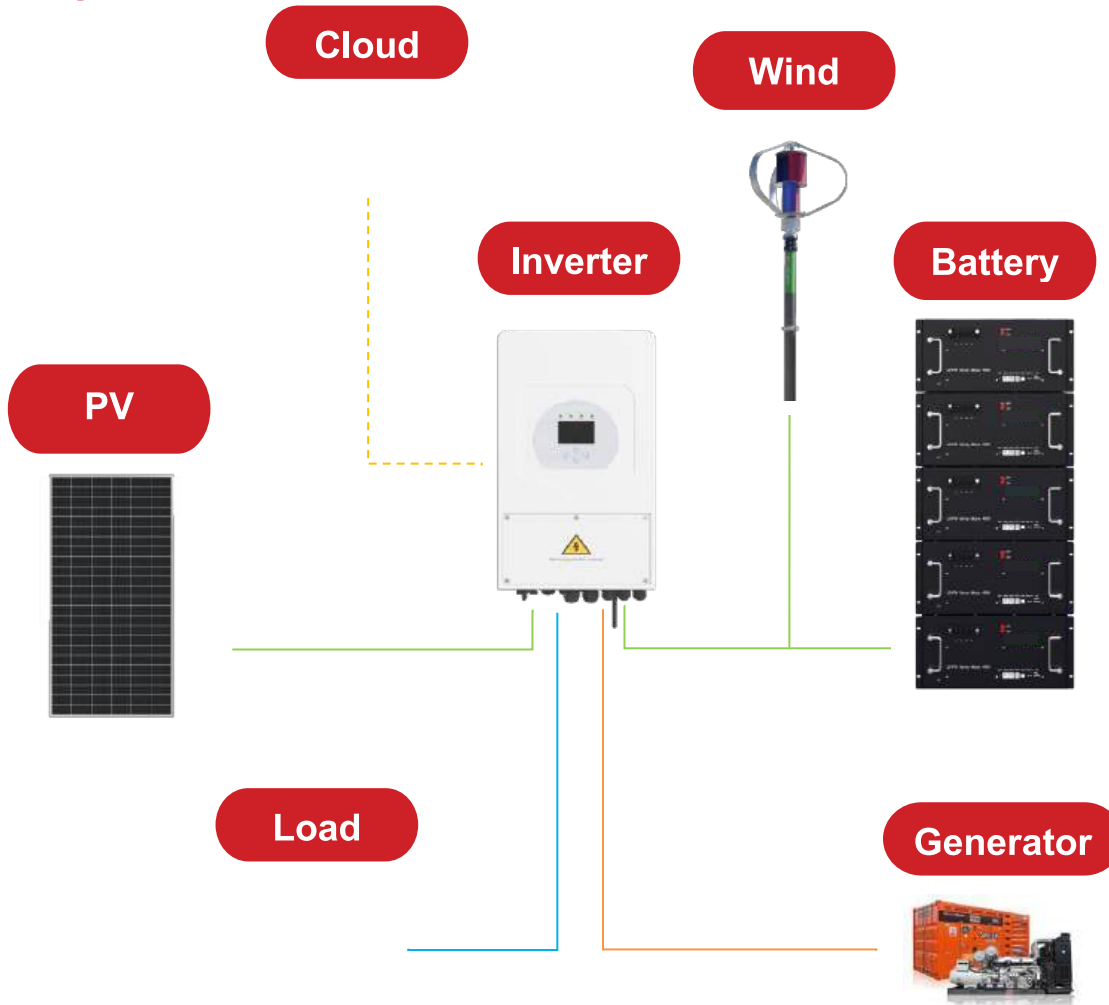
Hybrid Inverter System	
Solar Controller	MPPT*4 ways
AC Voltage Range	380~415Vac
Max.Charge/Discharge Current	420A
Max.Conversion Efficiency	97.6%
Rated Output Power	20kVA(0.8leading~0.8lagging)

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

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

Basic Logic



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