

## MODEL : GB-20

### HYBRID POWER STATION



#### Design Standards

GB® is a new range of secure integrated hybrid power station. With diesel generator, Battery storage and Hybrid solar Inverter in one secure unit for option.

GB® is mainly developed for lower emission, 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;

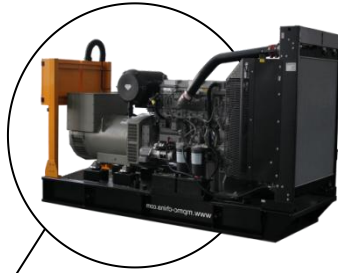
#### Warranty

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

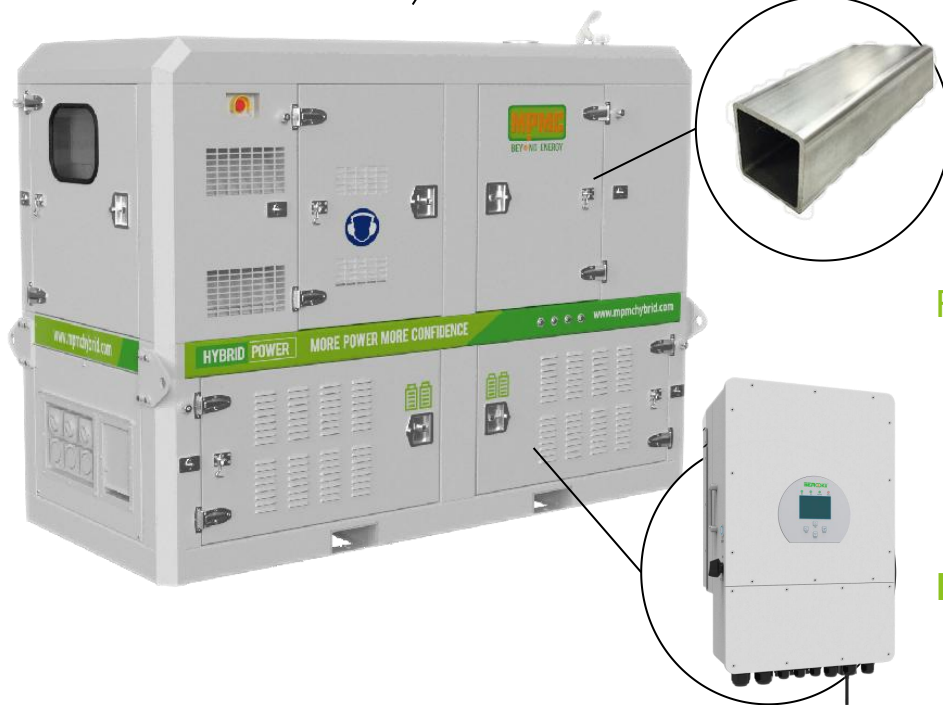


#### General Specification

Model	GB-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
Loading Dimension(W*D*H)	2450*1150*2150mm
Net.Weight	2200kg
Loading Capacity of 40'HC	8 units
Discharge Temperature Range	-20°C~50°C



**GENERATOR**  
RATED POWER: 10kW  
With **LOW CONSUMPTION**  
DOWN TO **3.7 L/H~!!**



**HIGH STRENGTH  
METAL FRAME**

COFFIDENCE IN  
FACING **WIND & RAIN  
& SNOW**

**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/10kW
Rated Voltage	400V@50HZ
Engine to Ref.	403D-15G(Perkins)
Emission	NA<19KW
Fuel Consumption	3.7 L/h@100% load
Fuel Tank Capacity	24 hours
Fuel Type	Diesel(Nature Gas Engine for option)
Base Functions	Automatic Start-up / Alarm / Automatic Stop / Emergency Stop / Load Management

### 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)

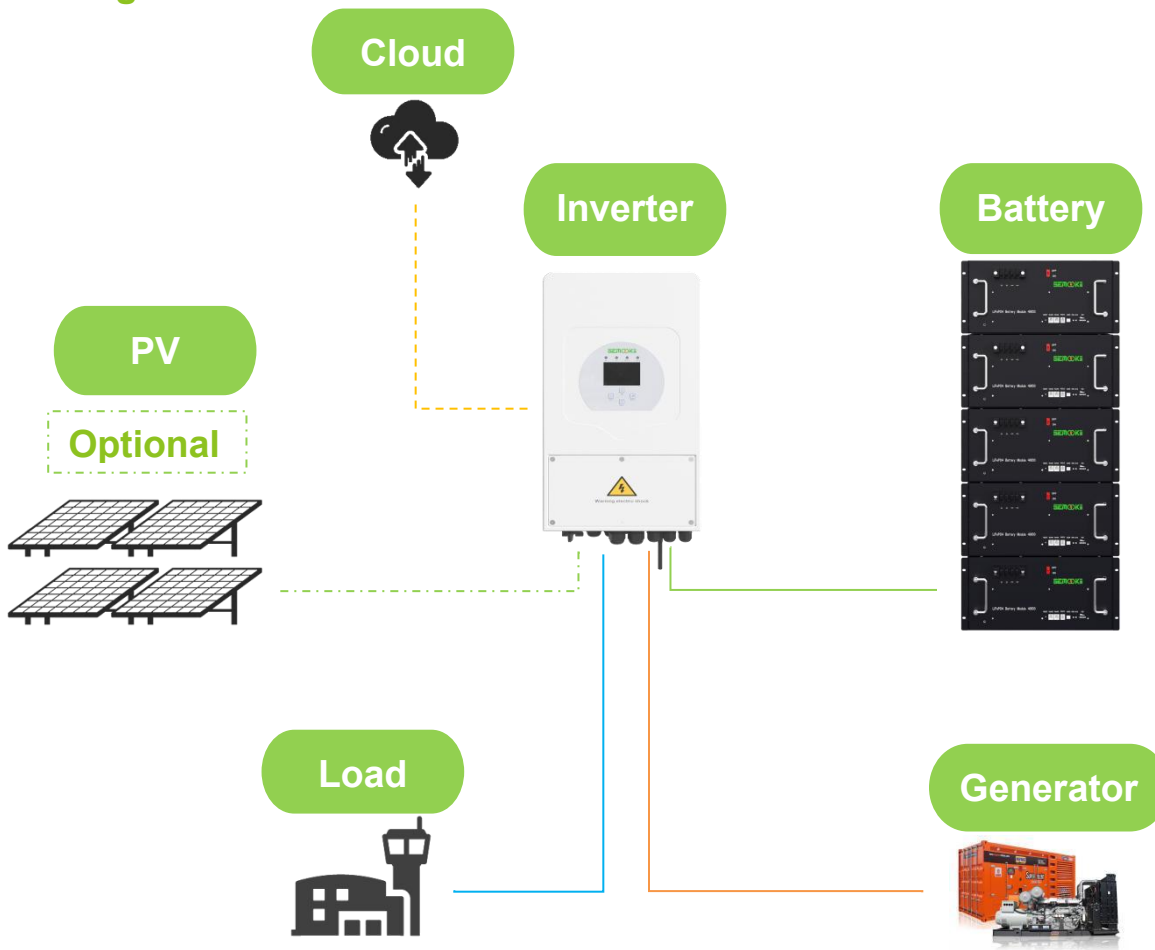
### Hybrid Inverter System

Solar Controller	MPPT*4
AC Voltage Range	380~415Vac
Max.PV Input Power	26000W
Max.PV Current	26A*4
Max.Charge/Discharge Current	420A
Max.Conversion Efficiency	97.6%
Rated Output Power	20kVA(0.8leading~0.8lagging)
Certification	IEC 61727;IEC 62116;IEC 60068;IEC 61683;NRS097-2-1;IEC 62109;IEC 61000

## Options

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

## Basic Logic



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



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