

## MODEL : GSB-30

### HYBRID POWER STATION



#### Design Standards

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

GSB® 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;

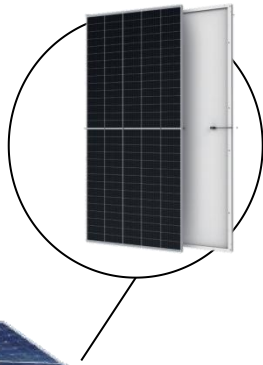
#### Warranty

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



#### General Specification

Model	GSB-30
System Rated Output Power	30 kVA
Rated Output Voltage	400V/230V@50Hz/60Hz,3ph. (According to customer requirements)
Min.Battery Storage Capacity	40 kWh
Max.Battery Storage Capacity	60 kWh
Output Terminals	Copper terminals & CEE 63A/5P Socket
Expand Dimension(W*D*H)	8200*6350*3150mm
Loading Dimension(W*D*H)	5700*2280*2230mm
Net.Weight	8100kg
Loading Capacity of 40'HC	2 units
Discharge Temperature Range	-20°C~50°C



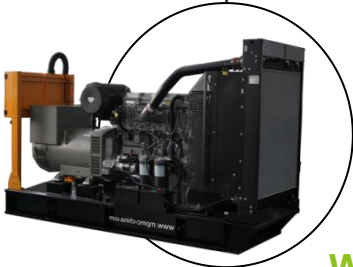
SOLAR PANEL

MAX.POWER:

**10120<sub>W</sub>**

With HIGH EFFICIENCY

UP TO **21%~!!**

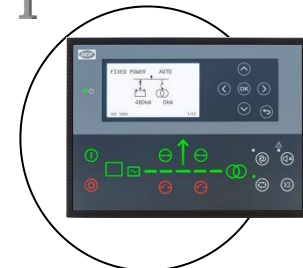


GENERATOR

RATED POWER: 16kW

With LOW CONSUMPTION

DOWN TO **5.3** L/H~!!



INTELLIGENT PCS  
with EMS

EASY OPERATION ON  
**ONE SCREEN**

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



### Generator Set

Prime Power	20 kVA
Fuel Consumption	5.3 L/h@100% load
Fuel Type	Diesel(Nature Gas Engine for option)
Fuel Tank Capacity	12 hours
Base Functions	Automatic Start-up / Alarm / Automatic Stop / Emergency Stop

### Solar Panel

Maximum Power	460W
Max-Power Voltage (Vm)	35.16VDC
Max-Power Current (Im)	13.08A
Qty.	22pcs

### Energy storage battery

Cell Type	LFP(LiFePO4)
Pack Model	MF51100
Pack Capacity	5 kWh
Pack Rated Voltage	51.2 VDC
Discharge Depth	90%
Charger/Discharge Current	97.7 A(1.0C)
Battery Rack Voltage	345.6V~708V
Rated Cycle Life	≥2000 (80% DOD)

### Power Conversion System

EMS	ASC 150(DEIF)
AC Voltage Range	400V(480V@60HZ)
Max.Charge/Discharge Current	90A
Max.Conversion Efficiency	97.6%
Rated Output Power	30kVA(0.8leading~0.8lagging)

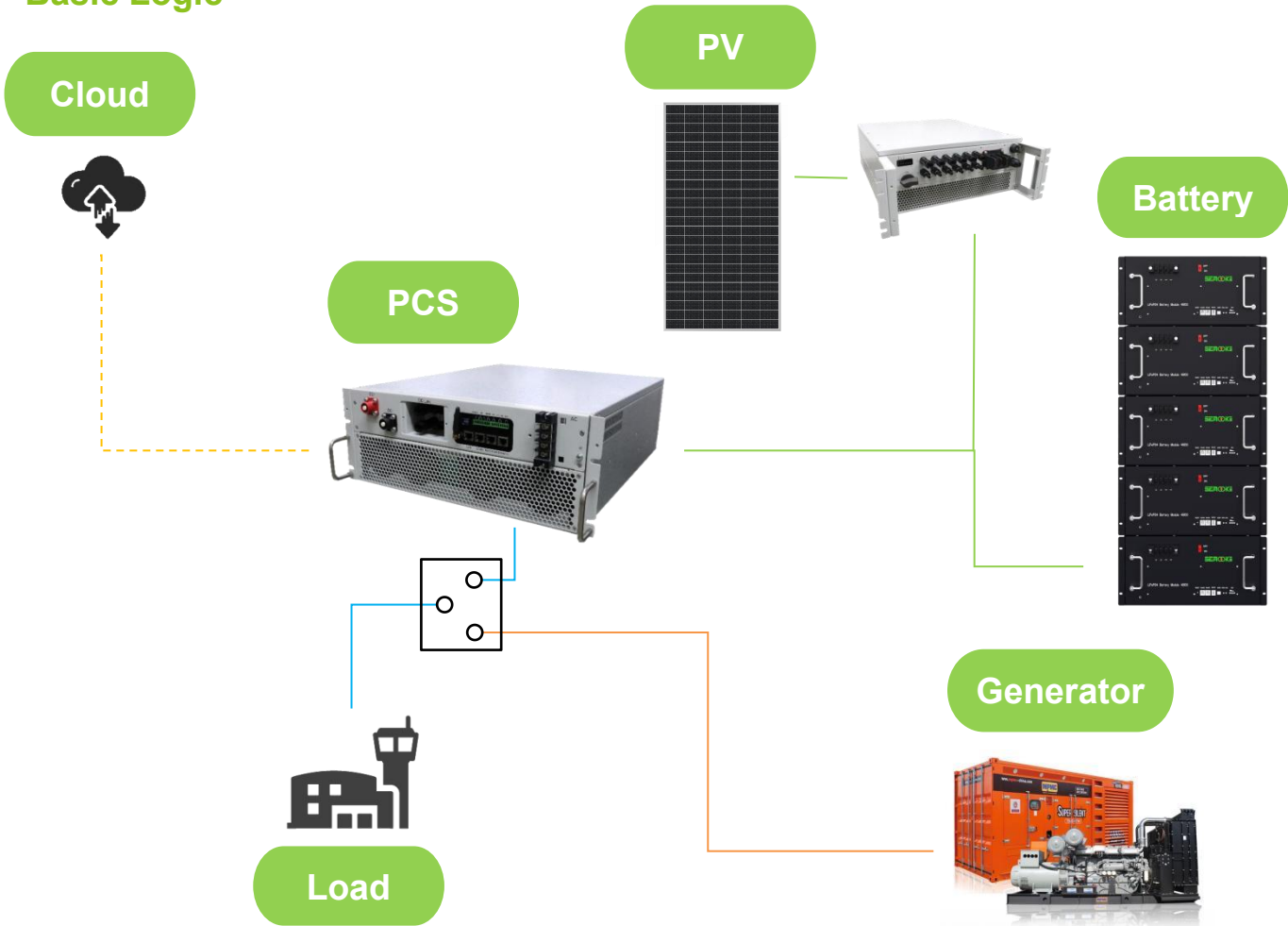
### DC/DC Converter

Solar Controller	MPPT*6
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## 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
	PV	Battery	Generator
Functions	Take load/charge	Take load	Take load/charge



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