



# Hybrid Power Solution

**Technical Description**



# GENERAL DESCRIPTION

HGS 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.

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



## PRODUCT HIGHLIGHTS AND 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;

# MAIN COMPONENTS

## INTELLIGENT INVERTER/PCS (POWER CONVERTER SYSTEM)



With EMS (Energy Management System) to manage all functions (switching between modes (grid/solar/genset etc.), charging/discharging)

EASY Operation on screen

## LIFEPO4 BATTERY



Long Life Design Up to 2000 cycles  
High Quality Based on Specification  
Consistency of CELLS

## GENERATOR



Low consumption generators  
Automatic fueling (option)  
Fuel base 12/24/36 h

244.53X179



Modell			
System Rated Output Power	10 kVA	20 kVA	30 kVA
Rated Output Voltage	400V/230V@50/60Hz, 3ph	400V/230V@50/60Hz, 3ph	400V/230V@50/60Hz, 3ph
Min Battery Storage Capacity	10 kWh	20 kWh	40 kWh
Max Battery Storage Capacity	25 kWh	40 kWh	60 kWh
Output Terminals	Copper terminals/ 16A 5p Socket	Copper terminals/ 32A 5p Socket	Copper terminals/ 32A 5p Socket
Expand Dimension (W*D*H)	3000*5500*3400mm	5100*6400*3200mm	8200*6400*3200mm
Loading Dimension (W*D*H)	3000*1200*2250mm	4000*2300*2250mm	5750*2300*2250mm
Net. Weight	2950 kg	3500 kg	8100 kg
Loading Capacity of 40'HC	8 units	3 units	2 units
Discharge Temperature Range	-20-50 Degress Celsius	-20-50 Degress Celsius	-20-50 Degress Celsius

## Generator

Fuel Consumption	2,6 L/h@100% load	3,7 L/h@100% load	5,3 L/h@100% load
Fuel Tank capacity	36 h	24 h	12 h
Functions	Auto start/stop/Alarm	Auto start/stop/Alarm	Auto start/stop/Alarm

## Solar Panel

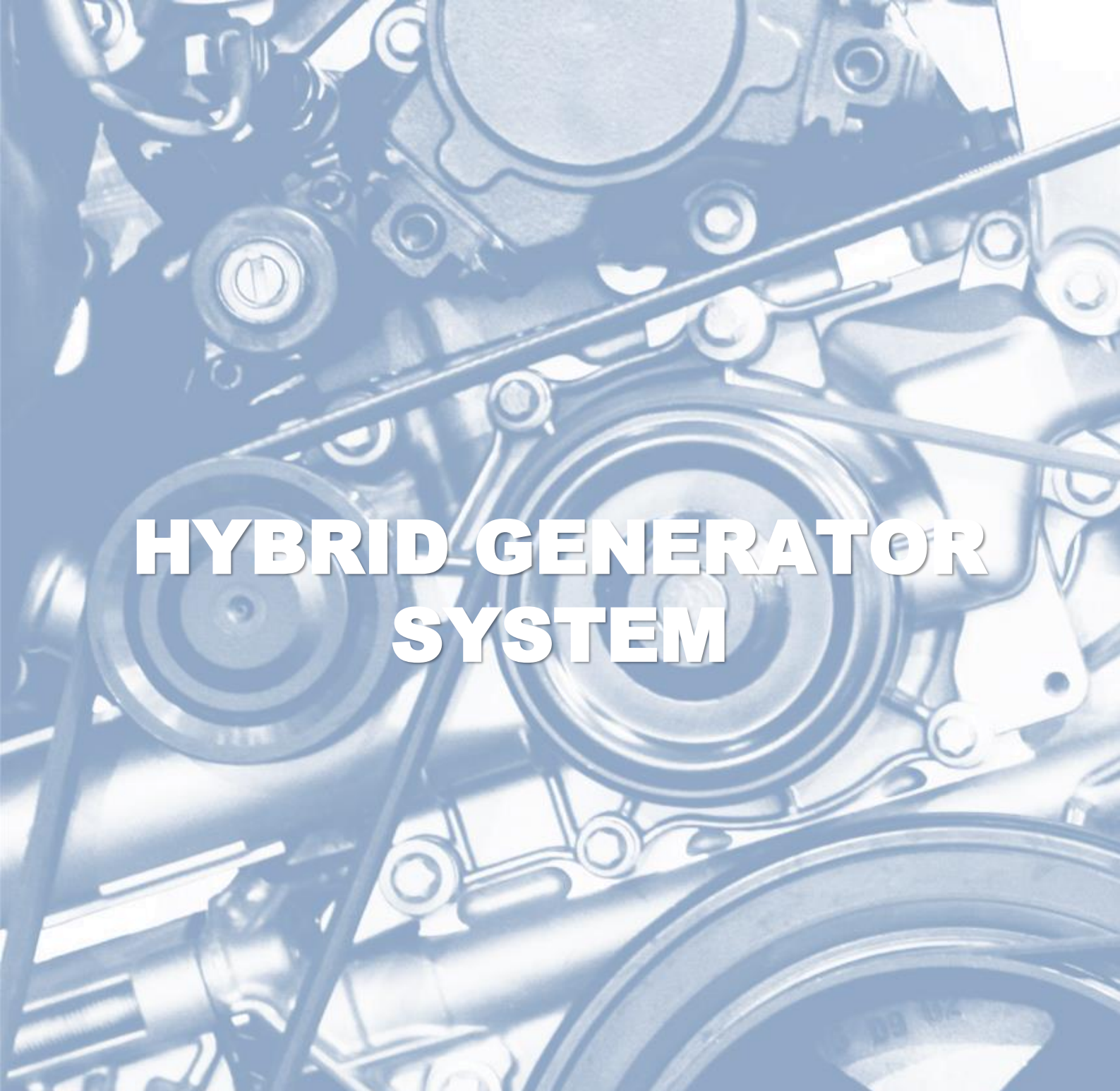
Maximum Power	550W	420 W	460 W
Qty.	5 Pcs.	12 Pcs.	22 Pcs.

## Battery

Cell Type	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)
Rack voltage	43-60V	43-60V	43-60V
Rated Cycle life	2000 (80% DoD)	2000 (80% DoD)	2000 (80% DoD)

## Inverter

Rated Output Power	10kVA	20kVA	30kVA
Solar controller	2* MPPT	4* MPPT	6* MPPT



# HYBRID GENERATOR SYSTEM

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All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.

