

# TECHNICAL DESCRIPTION

## NSR HYBRID GENERATOR SYSTEM



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# 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.



**NSR HGS 10**

## 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/decharging)
- 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



**NSR HGS 30**  
Powered by VAV



# TYPE COMPARISON

<b>DETAILED INFORMATION</b>			
<b>General specification</b>			
Modell	<b>NSR HGS 10</b>	<b>NSR HGS 20</b>	<b>NSR HGS 30</b>
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
<b>Generator</b>			
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
<b>Solar Panel</b>			
Maximum Power	550W	420 W	460kW
Qty.	5 Pcs.	12 Pcs.	22 Pcs.
<b>Battery</b>			
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)
<b>Inverter</b>			
Rated Output Power	10kVA	20kVA	30kVA
Solar controller	2* MPPT	4* MPPT	6* MPPT

Photographs are for illustrative purposes only and may not reflect final specification.

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.