

# HSG20P-30

## Hybrid Solar Generator

YR®



Reduced  
Noise Emissions



Fuel consumption  
reduction by up  
to 60%\*



Low OPEX



Maintenance  
costs reduced  
by up to 80%\*



Reduction in  
CO<sub>2</sub> emissions  
by up to 60%\*



\* The reductions shown reflect the average results obtained from typical field use cases.

The **HSG20** is an **all-in-one solution** that combines a **Stage V genset**, an **LFP battery pack**, and **photovoltaic panels** into a single compact product. It is efficient, reliable, and significantly reduces OPEX, offering a **wide range of operating modes** to ensure optimal selection based on site-specific requirements, such as events, construction sites, workplaces, or city centers.

- **Innovative solution** for a mobile solar hybrid generator in a **All-in-one** enclosure
- **Metal directable structure**, of the solar panels to allow to **maximize solar energy exposure**
- Advanced power electronics **DC/AC conversion** with **LiFePO4 batteries**
- Covering **power peaks** with batteries
- **No DPF** stocking

The PRAMAC logo consists of a red stylized symbol above the word "PRAMAC" in a bold, red, sans-serif font.

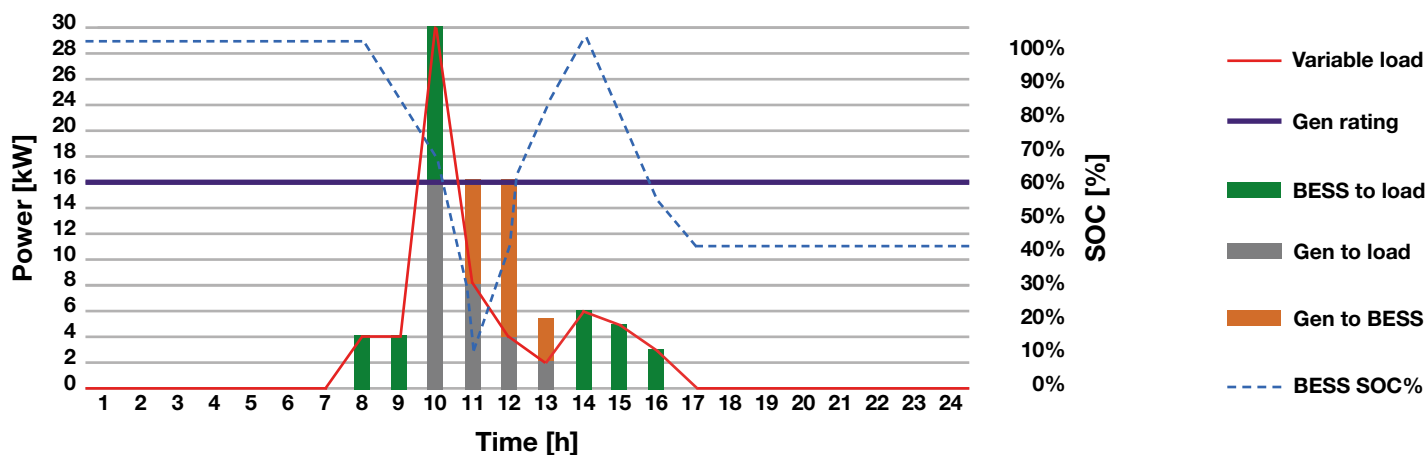
# Technical data

<b>Hybrid package - Max. power</b>	44 kVA   35.2 kW
<b>Genset Emergency stand-by power ESP</b>	22 kVA   17.6 kW
<b>Genset Prime power PRP</b>	20 kVA   16 kW
<b>Engine</b>	Perkins 404J-22G Stage V
<b>Inverter</b>	Victron 24 kVA
<b>Battery type</b>	LiFePO4
<b>Battery nominal capacity</b>	28.8 kWh
<b>Solar panels</b>	3x 400 Wp HC Mono

# Case studies

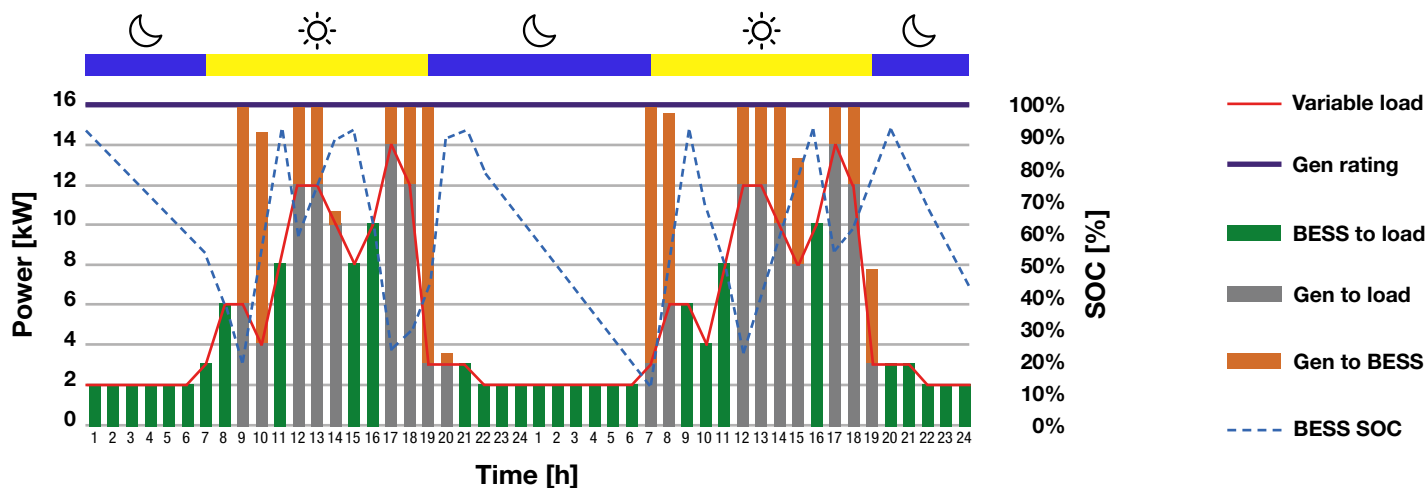
## 1. Construction site - 9 hr/day work 30 kW peak load

Avg. performances compared to a traditional 45 kVA Stage V genset	
<b>Fuel saving</b>	16.3 l/day
<b>Engine run hours saved</b>	5 h/day
<b>CO<sub>2e</sub>* reduction</b>	51.4 kg/day



## 2. City center - 24 hr/day work During night time: illumination plant switched on and mandatory silence

Avg. performances compared to a traditional 20 kVA Stage V genset	
<b>Fuel saving</b>	15.9 l/day
<b>Engine run hours saved</b>	15 h/day
<b>CO<sub>2e</sub>* reduction</b>	50.2 kg/day



\* Carbon Dioxide Equivalent: a standardized unit expressing greenhouse gas emissions normalized to the Global Warming Potential of CO<sub>2</sub>.