HSG20P-30

Hybrid Solar Generator

STAGE V COMPLIANT

- **Reduced Noise Emissions**
- **Fuel consumption reduction by up to 60%***
- **Low OPEX**
- **Maintenance costs reduced by up to 80%***
- **Reduction in CO_2 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

PRAMAC

Technical data

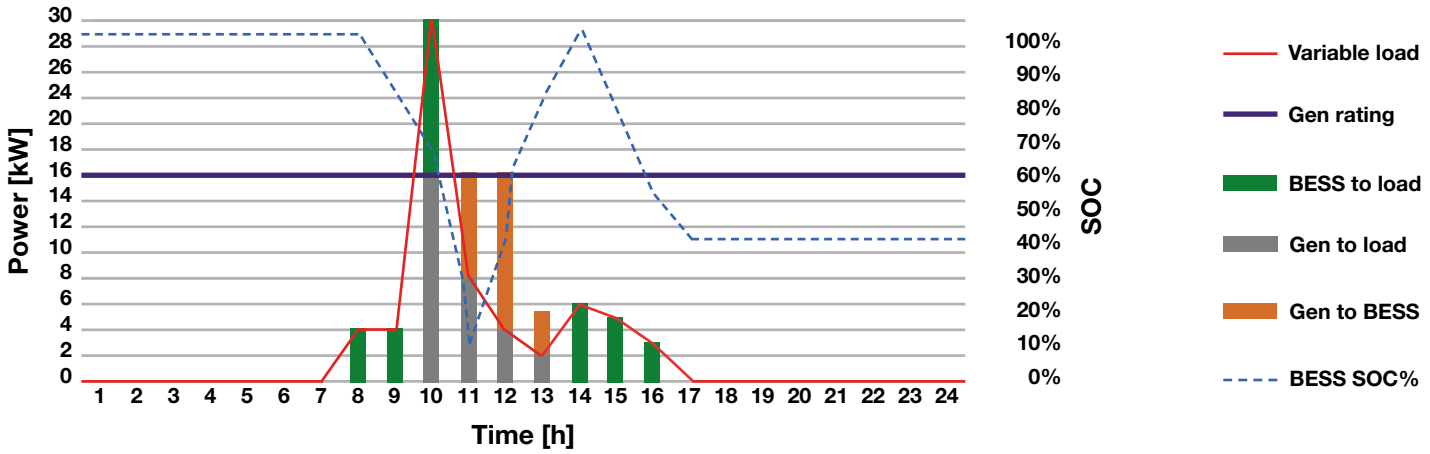
Hybrid package - Max. power	44 kVA | 35.2 kW
Genset Emergency stand-by power ESP	22 kVA | 17.6 kW
Genset Prime power PRP	20 kVA | 16 kW
Engine	Perkins 404J-22G Stage V
Inverter	Victron 24 kVA
Battery type	LiFePO4
Battery nominal capacity	28.8 kWh
Solar panels	3x 400 Wp HC Mono

Case studies

1. Construction site - 9 hr/day work

30 kW peak load

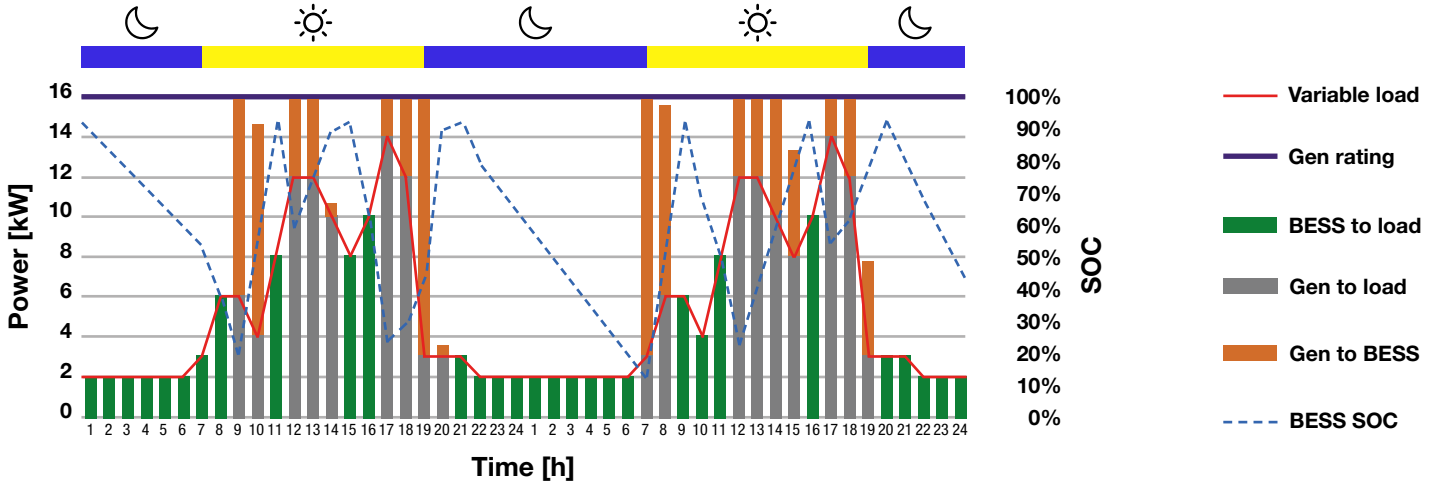
Avg. performances compared to a traditional 45 kVA Stage V genset	
Fuel saving	16.3 l/day
Engine run hours saved	5 h/day
CO_2e* reduction	51.4 kg/day



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	
Fuel saving	15.9 l/day
Engine run hours saved	15 h/day
CO_2e* reduction	50.2 kg/day



* Carbon Dioxide Equivalent: a standardized unit expressing greenhouse gas emissions normalized to the Global Warming Potential of CO_2.

[EN_2026-01_v2.0]