



## Hybrid Power Generator with **STAGE V** Engine **LITHIUM BATTERY** and **PHOTOVOLTAIC PANELS**

### MAIN FEATURES

- Versatile Power Supply
- **Lower CO<sub>2</sub> Emission** to protect the environment
- **Recharger Type2** for Electric Cars
- Lithium Batteries 30kW - Made in Europe
- Performance optimised with **Variable Speed System**
- Photovoltaic Batteries
- Chargeable from any source



**VARIABLE SPEED  
SYSTEM**

**Tel 01255 830355**

[www.bgguk.com](http://www.bgguk.com)

BGG UK Limited  
Delta House · Tendring Heath · Nr. Clacton · Essex · CO16 0BU



A BRUNO GROUP COMPANY

GENERATING SET	Unit	HC20S30 V
Voltage	V	48 DC
kVA Cont. Power - PRP	kVA	18
kVA Standby Power - LTP	kVA	22
Power Factor		cos $\theta$ 0,8
Fuel Tank	l	185
Fuel Consumption 70% load l	l/h	2 ÷ 3,4*
Weight	kg	2380
Control Panel	DSE	7310

ENGINE	Unit	KOHLER KDW1404
	rpm	1200-2800
kWm Standby Power - LTP	kWm	15
Regulator		Electronic
Cylinder and arrangement		4L
Total displacement	cm <sup>3</sup>	1372
Aspiration		Natural
Emissions compliant		<b>STAGE V</b>

LITHIUM BATTERY	Unit	48V-148 Ah
Nominal voltage	V	48V
Nominal capacity	Ah	148
Weight	kg	79
Nominal energy	Wh	7120
Volumetric energy density	Wh/l	114
Gravimetric energy density	Wh/kg	90
Round trip efficiency	%	>9
Life cycle (25 °C)		>6000 cycles - @ 75% DOD

## EXAMPLE OF PERFORMANCE IN BATTERY MODE

LITHIUM BATTERY

- UPS MODE load 2 kVA => 12 hours autonomy
- RECHARGER => 200 km autonomy
- GEN SET MODE => approx.1.5 hours full power

## STANDARD EQUIPMENT

- Ultra-silent canopy
- 185 litres fully bunded fuel tank
- Integrated fuel tank
- Central Lifting eye
- Forklift guides
- Vibration dampers
- Electric radiator in a separate compartment
- Cooling system with electric fans with VSi Technology
- Sockets kit
- Manual control panel with circuit breaker

## HYBRID SYSTEM

- 22 kVA Three-Phase Power Generator with **VS Engine Tier4f/STAGE V**
- PMG alternator 48V DC High efficiency
- 3 inverters (24 kVA three-phase)
- 3 Solar Modules - nominal power 320 WP
- Solar Charger
- Recharger Type2 For electric cars (22 kW Max.)
- 20 kVA three-phase UPS with full load
- Autonomy of 1.5 Hours (in battery mode)
- 20 kVA three-phase UPS with full load
- Unlimited autonomy (in GenSet mode)
- Solar Accumulator with 4 lithium batteries (30 kWh)
- Possibility to be coupled with a Photovoltaic field up to 6kW (42 kWh daily production)

## FULL CUSTOMISATION AVAILABLE

**Tel 01255 830355**  
[www.bgguk.com](http://www.bgguk.com)

BGG UK Limited  
 Delta House · Tendring Heath · Nr. Clacton · Essex · CO16 0BU



A BRUNO GROUP COMPANY