HGV POWER BOX Variable Hydraulic Generator System

DYNASET HGV POWER BOX Variable Hydraulic Generator System converts a mobile machine’s, vehicle’s or vessel’s engine power through a PTO into high quality electricity.

Electricity

**GV POWER BOX VARIABLE HYDRAULIC GENERATOR SYSTEM**

## Key Benefits

It is an all-in-one box type of modular system containing all the needed components to produce high quality electricity in mobile use, even while driving. The system has great benefits.

* Complete electric power supply
* The system powers any electric appliance in mobile use
* Produces high quality electricity also while driving
* Always ready for use
* Saves time, space and resources
* Easy installation on all hydraulic systems
* Small carbon footprint
* Two-year or 2000 hour warranty

## Features

The all-in-one box type of system includes a HG Hydraulic Generator, a cooler, an oil tank, regulation valves and a variable hydraulic pump which is optimized for the system. The system has great features.

* Standard models generate high quality electricity in power range of 6.6 kVA – 30.1 kVA for all AC-powered electric appliances.
* DYNASET automatic frequency control regulates the frequency exactly to 50 or 60 Hz depending on the model.
* Automatic voltage control maintains voltage at steady level according to electric load.
* System location by customer’s choice, also on the chassis of the vehicle or confined space
* All standard models have IP54 protection class
* The HG Hydraulic Generator operates with a compact hydraulic motor
* Low operating sound due to silent hydraulic motor
* A compact, stainless steel case
* Standard models with NEMA 3 rating
* CE marked
* Fast installation
* Easy installation
* Light Weight
* Reliable
* Silent operation
* No extra engine
* No fuel tank
* No exhaust pipe
* High quality coil parts
* Overload protection
* Safety earth leakage relay
* Residual current circuit breaker.
* Auxiliary electric central available

## Applications

* Electric tools
* Lights
* Heaters
* Coolers
* Welders
* Plastic welding
* Submersible pumps
* and 3-phase motors
* Back-up power
* Road measurement equipment
* Induction heaters

## How Does the Variable Hydraulic Generator System Work?

The variable hydraulic generator system utilizes a machine’s, vehicle’s or vessel’s engine power through a PTO as a power source to produce high-quality electricity for mobile use.

1. The system takes power from the vehicle’s engine or transmission PTO to variable displacement hydraulic pump which produces hydraulic oil flow, also while driving
2. Hydraulic oil flow is led to the hydraulic generator’s integrated hydraulic motor through the pressure line
3. The hydraulic generator converts the hydraulic oil flow and pressure into electricity
4. The hydraulic oil is led back to the hydraulic oil tank that is inside the box through the return line
5. Electric wire is drawn from the generator to the electric central which can be installed at any convenient location on the vehicle.