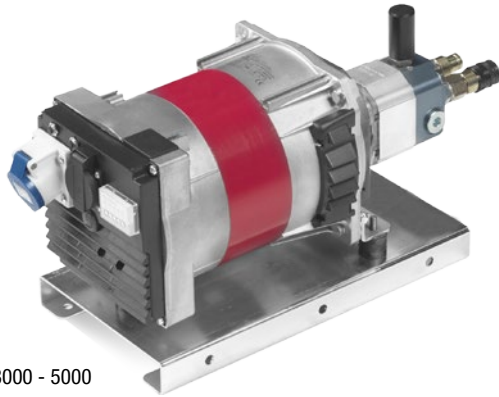


HYDRAULIC

HG 3000 - HG 7000

Single-Three-phase generators with hydraulic motor



HG 3000 - 5000



HG 7000 - 10000

Are compact hydraulic generators with power respectively of:

• **From 3 kVA to 40 kVA, 110 – 220V, 50-60Hz. Available in other configurations on demand.** They are ideal accessories of trucks, mini excavators, sky platforms, boats, mobile workshops and all machines equipped with sufficient hydraulic circuit. The connection to the machines is easy as the generators are hydraulically self regulated. Two flexible hoses are sufficient and in few minutes your machine becomes a powerful generator that can power electric tools of all types, electric spotlights and also welders, avoiding the presence of gasoline, engine generators with their associated problems of starting, maintenance, fuel availability, transport, exhaust fumes and noise. Our line is made with high quality products that increase significantly the equipment versatility improving productivity and providing anywhere is necessary low cost and low maintenance electricity.

TECHNICAL CHARACTERISTICS	HG 3000	HG 5000	HG 7000	HG 10000
Weight with base	25 Kg	28 Kg	41 Kg	55 Kg
Length	410 mm	410 mm	480 mm	510 mm
Width	210 mm	210 mm	240 mm	240 mm
Height	430 mm	430 mm	450 mm	450 mm
ELECTRIC CHARACTERISTICS				
n° phases	single	single	tri/single	tri/single
Power tri phase	-	-	7 KVA	10 KVA
Power single phase	3 KVA	5 KVA	4 KVA	5.5 KVA
Socket type	1 CEE - 1 Schuko	1 CEE - 1 Schuko	1 CEE - 1 Schuko	1 CEE - 1 Schuko
Ampere	230 V	230 V	400-230 V	400-230 V
Protection	IP 23	IP 23	IP 23	IP 23
Volt meter	YES	YES	YES	YES
Thermic protection	YES	YES	YES	YES
Alternator type	Electro mechanic rotary	Electro mechanic rotary	Electro mechanic rotary	Electro mechanic rotary
HYDRAULIC CHARACTERISTICS				
Hydraulic motor	gears group 2	gears group 2	gears group 2	gears group 2
Flow L/min	20-40	30-40	30-50	40-60
Pressure bar	140 - 210 Bar	140 - 210 Bar	140 - 210 Bar	140 - 210 Bar
Back pressure	max 17 Bar	max 17 Bar	max 17 Bar	max 17 Bar
Flow rate/speed adjustment	YES	YES	YES	YES

GENERATOR

HG 3000 - HG 7000

Single-Three-phase generators with hydraulic motor

- Depending on the available hydraulic capacity and pressure of the actuating machine, hydraulic motors with different displacements can be installed in order to have the ideal alternator revolutions, using the most suitable pressure or flow values as required. Contact DOA for more information.
- The pressures indicated in the table are to be considered real dynamic pressures, in fact the maximum pressure measured "in static condition" at zero flow corresponds to a real usable value of at least 10% lower than the static pressure.
- The alternator flow / rev control valve mounted on hydraulic motors is a safety feature that prevents the alternator from exceeding the revolutions necessary to provide the correct voltage and frequency values, the valve can bypass a limited excess of flow (maximum 10 liters above the minimum value necessary) for which it can not be entrusted with the function of regulating excessive hydraulic flows that can not be managed by the valve itself, so if the actuator sends, for example, a flow rate of more than 45 liters to the generator, the excess flow rate it must be regulated upstream in line by a real and larger flow control valve, this will also avoid harmful excesses of backpressure at the exhaust, unnecessary increases in operating pressure and increase in the temperature of the hydraulic oil.



MOTOR A



MOTOR B

The hydraulic generators can be supplied with two types of hydraulic motors.
MOTOR A equipped with regulation of flow/speed and with ON/OFF hydraulic activation only.
MOTOR B with ON/OFF activation by a integrated solenoid switch, thanks to the electric activation, the motor rotation can be started/stopped by a electric control.

CONTROLS regulation valve for flow rate/rpm alternator with hydraulic motor silenced and protected by a mono-directional valve that prevents reverse rotation and damage from "violent arrest" to give a natural rotation arrest when the flow is cut

TECHNICAL CHARACTERISTICS	HG 12000	HG 19000	HG 26000	HG 35000
Weight with base	60 Kg	120 Kg	120 Kg	175 Kg
Length	600 mm	600 mm	600 mm	750 mm
Width	300 mm	300 mm	300 mm	450 mm
Height	450 mm	450 mm	450 mm	450 mm
ELECTRIC CHARACTERISTICS				
n° phases	tri/single	tri/single	tri/single	tri/single
Power tri phase	12 KVA	19 KVA	26 KVA	35 KVA
Power single phase	7 KVA	11 KVA	15 KVA	20 KVA
Socket type	1 CEE - 1 Schuko	1 CEE - 1 Schuko	1 CEE - 1 Schuko	1 CEE - 1 Schuko
Ampere	400-230 V	400-230 V	400-230 V	400-230 V
Protection	IP 23	IP 23	IP 23	IP 23
Volt meter	YES	YES	YES	YES
Thermic protection	YES	YES	YES	YES
Alternator type	Electro mechanic rotary	Electro mechanic rotary	Electro mechanic rotary	Electro mechanic rotary
HYDRAULIC CHARACTERISTICS				
Hydraulic motor	gears group 2	gears group 2	gears group 2	gears group 2
Flow L/min	50-70	80-100	90-120	90-130
Pressure bar	140 - 210 Bar	140 - 210 Bar	140 - 210 Bar	140 - 210 Bar
Back pressure	max 17 Bar	max 17 Bar	max 17 Bar	max 17 Bar
Flow rate/speed adjustment	YES	YES	YES	YES