

# DYNASET HG

## Hydraulic Generator

# HITG<sup>®</sup>

## HIGH-TECH GENERATORS

[www.hightechgenerators.com.au](http://www.hightechgenerators.com.au)

**DYNASET HG Hydraulic Generator converts the hydraulic power of a mobile machine into electricity. HG Hydraulic Generators produce high quality electricity from 3,5 kVA up to 350 kVA for 50 or 60 Hz frequencies to power any electric appliance in mobile use**

### ⚙️ ADVANTAGES

#### Base Machines & Installation

The world's best power-to-size ratio guarantees easy installation on mobile machinery such as excavators, trucks, platform lifts, service vehicles. It can be fitted into any mobile hydraulic system and thanks to its compact size and light weight, it is easy to install anywhere on the mobile machine. HG can also be located in confined space since there isn't any space consuming fuel tank or an exhaust pipe creating air pollution and heat.

#### How It Works

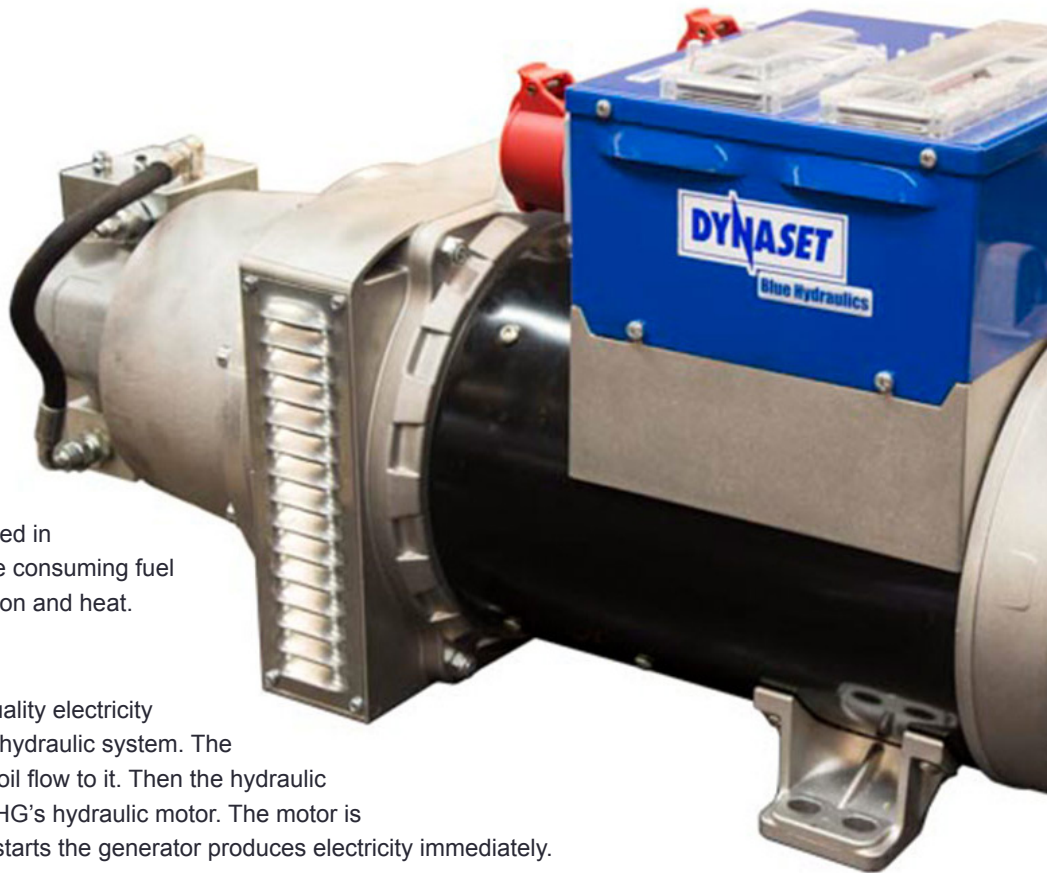
HG Hydraulic Generator produces high quality electricity using the power from the base machine's hydraulic system. The HG is turned on by opening the hydraulic oil flow to it. Then the hydraulic system feeds the hydraulic oil flow to the HG's hydraulic motor. The motor is integrated into the generator and when it starts the generator produces electricity immediately. HG is designed to handle fluctuating hydraulic oil flows to ensure continuous high quality electricity.

#### Productivity

By installing HG Hydraulic Generator into a mobile machine it increases the vehicles productivity and net worth. HGs are compact, many times smaller than traditional generators. There is no more need for dragging big separate generators to the work sites, HG is always on board and ready for use. By installing the HG to the mobile machine the utilization rate of the machine increases and there is less need for multiple machines on the work site.

#### Clean technology

All DYNASET HG Hydraulic Generators are eco-friendly. The hydraulic generator runs with the hydraulic power of a base machine instead of a diesel motor which is commonly used with traditional generators. Therefore, hydraulic generator does not require any fuel and does not generate air pollution. Thanks to the DYNASET clean technology, there are less emissions and natural resources consuming equipment at worksites. Hydraulic generator is maintenance-free and doesn't require transportation since it is integrated into the base machine.



# DYNASET

# HG - 50Hz, IP23

		HW 3.5 21	HG 5 25	HG 6.5 34	HG 10 49	HG 12 54	HW 15 65	HG 20 92	HG 20 60	HG 30 120	HG 30 90
<b>OUTPUT CHARACTERISTICS</b>											
Output Power Max.	kVA	3.5	5	6.5	10	12	15	20	20	30	30
Power Factor/Power	cos φ/kW	1.0/3.5	1.0/5.0	0.8/5.2	0.8/8.0	0.8/9.6	0.8/12.0	0.8/16.0	0.8/16.0	0.8/24.0	0.8/24.0
Output Voltage, VAC	1 phase	230	230	230	230	230	230	230	230	230	230
	3 phase	-	-	400	400	400	400	400	400	400	400
Nominal Current, A	1 phase	15.2	21.7	14.2	21.7	26.1	32.6	43.5	43.5	65.2	65.2
	3 phase	-	-	9.4	14.4	17.3	21.7	28.9	28.9	43.3	43.3
Sockets (1 phase/3 phase/cable K)		2 / - / -	2 / - / -	2 / 1 / -	2 / 1 / -	2 / 1 / -	2 / 2 / -	2 / 2 / -	2 / 2 / -	- / - / K	- / - / K

<b>HYDRAULIC POWER REQUIREMENTS</b>											
Flow Min.	l/min	23	28	37	52	58	69	94	62	122	92
	(U.S gpm)	(6.1)	(7.4)	(9.8)	(13.8)	(15.3)	(17.95)	(24.82)	(16.37)	(32.21)	(24.29)
Pressure Max.	bar (psi)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	420 (6100)	250 (3600)	420 (6100)

<b>OVERALL DIMENSIONS</b>											
Length	mm (in)	435 (17.15)	459 (18.1)	500 (19.7)	568 (22.4)	566 (22.3)	828 (32.60)	879 (34.60)	924 (36.38)	933 (36.75)	908 (35.75)
Width	mm (in)	212 (8.35)	212 (8.35)	212 (8.35)	212 (8.35)	290 (11.45)	349 (13.80)	349 (13.80)	349 (13.80)	328 (12.95)	328 (12.95)
Height	mm (in)	229 (9.05)	230 (9.10)	326 (12.85)	326 (12.85)	351 (13.85)	462 (18.20)	462 (18.20)	462 (18.20)	462 (18.20)	433 (17.05)
Weight	kg (lbs)	26 (57)	29 (64)	43 (95)	57 (126)	60 (132)	98 (216)	120 (265)	120 (265)	175 (386)	173 (382)

HG Hydraulic Generators are available up to 350 kVA. Models available with separate electric central and connection cable. Visit [www.dynaset.com](http://www.dynaset.com) for detailed information.

		HG 40 165	HG 40 90	HG 50 188	HG 50 120	HG 60 120	HG 70 165	HG 4.1 25	HG 6.6 34	HG 10.1 49	HG 12.1 54	HG 15.1 54	HG 20.1 78	HG 30.1 90
<b>OUTPUT CHARACTERISTICS</b>														
Output Power Max.	kVA	40	40	50	50	60	70	4.1	6.6	10.1	12.1	15.1	20.1	30.1
Power Factor/Power	cos φ/kW	0.8/32.0	0.8/32.0	0.8/40.0	0.8/40.0	0.8/48.0	0.8/56.0	1.0/4.1	0.8/5.28	0.8/8.0	0.8/9.68	0.8/12.08	0.8/16.08	0.8/24.08
Output Voltage, VAC	1 phase	230	230	230	230	230	230	230	230	230	230	230	230	230
	3 phase	400	400	400	400	400	400	400	400	400	400	400	400	400
Nominal Current, A	1 phase	87.0	87.0	130.4	130.4	156.5	182.6	17.8	14.2	21.7	26.1	32.6	43.7	65.2
	3 phase	57.7	57.7	72.2	72.2	86.6	101.0	-	9.5	14.6	17.5	21.8	29.0	43.3
Sockets (1 phase/3 phase/cable K)		- / - / K	- / - / K	- / - / K	- / - / K	- / - / K	- / - / K	2 / - / -	2 / 1 / -	2 / 1 / -	2 / 1 / -	- / - / K	- / - / K	- / - / K

<b>HYDRAULIC POWER REQUIREMENTS</b>														
Flow Min.	l/min	167	92	190	122	122	167	28	37	52	58	58	82	95
	(U.S gpm)	(44.09)	(24.29)	(50.16)	(32.21)	(32.21)	(44.09)	(6.86)	(9.24)	(13.2)	(15.58)	(15.58)	(21.90)	(25.08)
Pressure Max.	bar (psi)	250 (3600)	420 (6100)	250 (3600)	420 (6100)	410 (6100)	420 (6100)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	420 (6100)

<b>OVERALL DIMENSIONS</b>														
Length	mm (in)	1003 (39.5)	996 (39.2)	1250 (49.2)	1135 (44.7)	Custom	Custom	470 (18.50)	479 (18.90)	518 (20.40)	519 (20.45)	554 (21.8)	800 (31.5)	1125 (44.3)
Width	mm (in)	402 (15.8)	402 (15.8)	402 (15.8)	402 (15.8)	Custom	Custom	381 (15.00)	381 (15.00)	379 (14.95)	381 (15.00)	334 (13.1)	334 (13.1)	397 (15.6)
Height	mm (in)	478 (18.8)	478 (18.8)	490 (19.3)	490 (19.3)	Custom	Custom	352 (13.90)	350 (13.85)	354 (13.95)	335 (13.20)	262 (10.3)	272 (10.7)	340 (13.4)
Weight	kg (lbs)	198 (437)	198 (437)	249 (549)	249 (549)	Custom	Custom	43.5 (96)	56.5 (125)	68 (150)	68 (150)	98 (216.1)	120 (265)	185 (408.5)

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