

Utilities at the construction site.

To speed up the construction processes.

At the construction site, Wacker Neuson utilities ensure that all processes run smoothly. All equipment meets the highest quality standards and impresses with its durable performance. This is backed by the Wacker Neuson corporate principles: **Reliability, trustworthiness, quality, quick reaction, flexibility and innovation.**

1 Wacker Neuson heating systems

From small and medium-sized heaters, to space heaters, to ground and surface heaters – Wacker Neuson offers a wide range of heater products. Ask us for details.

2. Wacker Neuson pumps

Three-phase and AC submersible pumps, diaphragm or centrifugal sewage pumps, waste water pumps and drainage pumps – the Wacker Neuson pump range includes the right pump for any application.



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Power generators and lighting systems.

Optimum utilities at the construction site.



Please note: the Wacker Neuson product range includes over 300 different product groups for light and compact equipment. The product range for light equipment includes a wide variety of products in response to differing voltage and frequency conditions, local regulations, market conditions and application requirements. For this reason, not all of the Wacker Neuson products listed or illustrated here are available or approved for use in every country. We reserve the right to modifications due to ongoing development. The Wacker Neuson company does not accept any liability for the correctness and completeness of the information included in this brochure. Reproductions may only be made with the written consent of the Wacker Neuson company, Munich, Germany. © Wacker Neuson SE 2009. All rights reserved.



**WACKER
NEUSON**



**WACKER
NEUSON**

We are the guarantee for a well-functioning construction site.



POWER GENERATION AND LIGHTING SYSTEMS



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LIGHTING SYSTEMS
- Light towers
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ACCESSORIES
- Generators
- Light balloons



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USES FOR GENERATORS
- Overview of the generators and connection possibilities

The be all and end all:
Reliable power supply
technology on the
construction site.

Generators in operation.

An efficient and reliable power supply is the basis of a well-functioning construction site. Wacker Neuson offers a wide variety of power generators that are tailored to various construction site requirements and applications:

- **Portable generators** are particularly well suited for smaller construction sites or when you move around the site frequently. They are light to carry and easy to handle.
- **Mobile generators** are ideal power generators for large construction sites, or can be used to provide emergency power. The practical transport trailer makes them portable and extremely versatile.



PORTABLE GENERATORS



MOBILE GENERATORS



Generators

For use everywhere: The economical synchronous generators of the GV Series.

The practical wheel kit makes the GV even more universal. It is easy to assemble and can be supplied as an accessory.



Connecting sockets:

- **Variant 1:** 2 x shock-proof 230 V, 16 A
- **Variant 2:** 1 x shock-proof 230 V, 16 A + 1 x CEE 400 V, 16 A
- **Variant 3:** 1 x shock-proof 230 V, 16 A + 1 x CEE 230 V, 32 A

GV 2500



**THE GV SERIES
ACCESSORY**
can be found on page 32.



To suit any job and any budget:

- Reliable performance in hours of continuous operation.
- Extremely compact and height-reduced design saves space.
- The very sturdy and light protective frame has an additional steel cover. This provides optimum protection even under the roughest conditions on the site.
- Honda 4-stroke engines impress with their reliable power output, extremely easy starting and a long service life.
- Large tank for long work periods without refuelling interruptions.

- The safety status conforms to the protective breaker (as per VDE 0100): Since it is not necessary to earth the generator star point, no closed fault current circuits can arise (via the earth / operator) between the load and the generator.
- A cut-off switch provides greater operational safety against overloading and for a long service life.
- Ideally suitable for construction sites as well as for industrial, commercial and agricultural applications.
- Available in 5 different versions (see technical data).



Universal talents in power supply matters: G 7 and GS 12.



Connecting sockets:

- **G 7:** 2 x shock-proof 230 V, 16 A
1 x CEE 400 V, 16 A
1 x CEE 230 V, 16 A
- **GS 12:** 2 x shock-proof 230 V, 16 A
1 x CEE 230 V, 16 A
1 x CEE 400 V, 16 A

G 7:

- Electronic voltage control.
- Protected against dust and water splashes by protection class IP 54.
- With a practical wheel kit if desired.



G 7



GS 12

GS 12:

- Small in size, big on performance.
- Extremely low noise thanks to sound insulation.
- Electrical start version.
- Wheel kit as standard.

THE ACCESSORIES
FOR G 7 AND GS 12
can be found on page 32.

Quality, safety and much more besides: G 7 and GS 12 have a lot to offer.

- They supply a stable, sinusoidal output voltage.
- Extremely efficient: Loads with start-up currents up to 4 times the nominal current value can be connected.
- The operator is safely protected by the insulation monitoring device.
- Honda 4-stroke engines impress with their reliability, power output, easy starting and a long service life.
- Large tank for long work periods without refuelling interruptions.
- The robust frame protects the engine and generator against damage from impacts or knocks.
- The compact design is extremely space-saving and requires only a small installation volume.
- Ideally suited for industrial, commercial or agricultural use.



The protective voltage professional: GH 3500.



GH 3500

Connectable Wacker Neuson equipment:

- Hammer drill EH 24/042/200.
- Various internal vibrators of the IREN and IRSEN models.
- Various external vibrators of the AR model.



Connecting sockets:

- **GH 3500:** 2 x 42 V, 32 A
1 x 42 V, 63 A



Ideal for connecting equipment with 42 V/200 Hz:

- Extremely safe, because the 42 V output voltage is not dangerous to humans.
- Continuously good performance, thanks to the high-quality construction.
- You can work safely with the GH 3500 even in damp environments.
- Generator and converter in one.
- Simple to operate: All 42V/200Hz equipment can be easily connected and operated directly.



Maximum output in portable form: The portable G Series power generators.



G 78



Extremely mobile:
The trailer (available as an accessory) has European approval for road use, and brings the generators quickly and practically to wherever they are needed.

- 1 The integrated three-way valve** offers the possibility of connecting an external tank. This extends the generator's operating time and allows for even greater independence.
- 2 Lockable door** with access to the controller, for direct connection and to all fuses. Provides additional security against incorrect operation.
- 3 Integrated earth rod** for operation in the TN system.



Connecting sockets:

- 1x 1~ shock-proof 230 V – 16 A
 - 1x 1~ CEE 230 V – 16 A
 - 1x 3~ CEE 400 V – 16 A
 - 1x 3~ CEE 400 V – 32 A
 - 1x 3~ CEE 400 V – 63 A
- Direct connection possible

The external automatic back-up system

monitors the public mains and ensures that in the event of current fluctuations or a power failure, the generator starts up automatically. This guarantees a reliable power supply at all times. You get the automatic back-up system as an accessory.



- 4 The digital control panel** clearly shows all functions at a glance to provide comprehensive operating status information.
- 5 Practical, removable lifting point** for quick on-site availability.
- 6 Integrated fork lift pockets** for simple on-site transport.





TECHNICAL DATA	GV 2500A	GV 5000A	GV 5003A	GV 7000A	GV 7003A
L x W x H mm	625 x 405 x 500	735 x 510 x 515	735 x 510 x 515	735 x 510 x 520	735 x 510 x 520
Empty weight kg	41	61	75	72	81
Max. power kVA	2.36	4.44	5.38	6.05	7.45
Max. continuous output kVA	2.30	4.33	5.20	5.50	7.10
Nominal current A at 1~	10.0	18.8	14.1	23.9	14.1
Nominal current A at 3~	–	–	7.5	–	10.2
Nominal voltage V at 1~	230	230	230	230	230
Nominal voltage V at 3~	–	–	400	–	400
Miniature circuit breaker A	10 1~	20 1~	10/12/10 3~	12/22 1~	10/12/10 3~
Frequency Hz	50	50	50	50	50
Power factor cos φ	0.9	0.9	0.8	0.9	0.8
Engine manufacturer	Honda	Honda	Honda	Honda	Honda
Type	GX 160	GX 270	GX 270	GX 390	GX 390
Cylinder capacity cm³	163	270	270	389	389
Operating power (DIN ISO 3046) kW (HP)	3.6 (4.8)	6.3 (8.5)	6.3 (8.5)	8.3 (11.1)	8.3 (11.1)
At speed rpm	3,000	3,000	3,000	3,000	3,000
Tank capacity (fuel) l	11.0	11.0	11.0	11.0	11.0
Operating time (at continuous output) h	11.8	6.7	6.7	5.1	5.6
Connecting sockets	2 x shock-proof 230V, 16A	2 x shock-proof 230V, 16A	1 x shock-proof 230V, 16A 1 x CEE 400V, 16A	1 x shock-proof 230V, 16A 1 x CEE 230V, 32A	1 x shock-proof 230V, 16A 1 x CEE 400V, 16A

TECHNICAL DATA	G 7AI	GS 12AI	GH 3500
L x W x H mm	695 x 545 x 570	960 x 640 x 667	540 x 440 x 521
Empty weight kg	93	175	39
Max. power kVA	7.4	13.9	4.2
Continuous output kVA at 1~	4.9	–	–
Continuous output kVA at 3~	7.0	11.8	3.0
Nominal current A at 1~	21.5	27.1	–
Nominal current A at 3~	10.1	17.1	41.2
Nominal voltage V at 1~	230	230	–
Nominal voltage V at 3~	400	400	42 3~
Miniature circuit breaker A	16 3~	16 3~	–
Frequency Hz	50	50	200
Power factor cos φ at 1~	1.0	0.9	–
Power factor cos φ at 3~	0.8	0.8	0.8
Engine manufacturer	Honda	Honda	Wacker Neuson
Type	GX 390	GX 620	WM 210
Cylinder capacity cm³	389	614	211
Operating power (DIN ISO 3046) kW (HP)	8.3 (11.1)	13.5 (18.1)	5.1 (7.0)
At speed rpm	3,000	3,000	3,500
Tank capacity (fuel) l	15.0	24.0	3.6
Operating time (at continuous output) h	4.7	6.9	1.9
Connecting sockets	2 x shock-proof 230V, 16A 1 x CEE 230V, 16A 1 x CEE 400V, 16A	2 x shock-proof 230V, 16A 1 x CEE 230V, 16A 1 x CEE 400V, 16A	2 x 42V, 32A 1 x 42V, 63A

TECHNICAL DATA	G 22	G 32	G 43	G 66	G 78
L	2,000	2,000	2,000	2,710	2,710
W	920	920	920	1,180	1,180
H (on runners) mm	1,300	1,300	1,300	1,535	1,535
L	3,411	3,411	3,411	4,270	4,270
W	1,438	1,438	1,438	1,656	1,656
H (on trailer) mm	1,650	1,650	1,650	1,920	1,920
Operating weight (on runners / on trailer) kg	972 / 1,015	1,034 / 1,091	1,086 / 1,155	1,588 / 1,902	1,738 / 1,949
Empty weight (on runners) kg	901	960	1,012	1,270	1,420
Continuous output kW/kVA	16.6/20.8	24.2/30.4	33.0/41.3	47.0/58.7	59.4/74.3
Standby power kW/kVA	17.5/21.9	25.5/31.9	34.7/43.4	52.4/65.5	62.2/77.7
Nominal voltage V at 1~	230	230	230	230	230
Nominal voltage V at 3~	400	400	400	400	400
Frequency Hz	50	50	50	50	50
Power factor 1~ / 3~	0.8	0.8	0.8	0.8	0.8
Voltage control, zero load to full load %	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Winding class	H	H	H	H	H
Noise level at full load dB(A) to 7 m	64	64	64	70	70
Engine type	3 cylinder	4 cylinder	4 cylinder liquid-cooled Deutz Diesel engine	4 cylinder	4 cylinder
Nominal power kW at nominal speed rpm	19.0 1,500	27.6 1,500	36.4 1,500	52.0 1,500	66.1 1,500
according to	ISO 3046	ISO 3046	ISO 3046	ISO 3046	ISO 3046
Cylinder capacity cm³	2,330	3,110	3,110	4,040	4,040
Tank capacity (fuel) l	78	78	78	350	350
Fuel consumption at full load l/h	5.2	7.1	9.4	13.7	15.7
Battery V/CCA	12V/680A	12V/680A	12V/680A	12V/760A	12V/760A
Trailer coupling	50 mm ball-head coupling				
Connection sockets each 1	1~ shock-proof 230V/16A, 1~ CEE 230 V/16A, 3~ CEE 400 V/16A, 3~ CEE 400 V/32A, 3~ CEE 400 V/63A				

The prerequisite for first class results:

Light. Right into all the nooks and crannies.

Lighting systems give you complete working independence.

Without light, everything comes to a standstill. Including on the construction site. To ensure that site activities are not dependent on the season or daylight during autumn, winter or even late in the evening or at night, Wacker Neuson supplies reliable lighting systems that provide light even in all the nooks and crannies.

- **Light towers** provide extensive lighting on construction sites, and ensure top-class working conditions.
- **Light balloons** are ideally suited for smaller to medium-sized areas. Their glare-free lighting is also very well suited to road construction sites.



LIGHT TOWERS



LIGHT BALLOONS



Lighting

Wheels, generator and light mast all in one. A unit with an illuminating effect. LTN 6.

LTN 6



Only with Wacker Neuson:
A LARGER ILLUMINATED AREA THANKS TO ELLIPTICAL REFLECTORS.

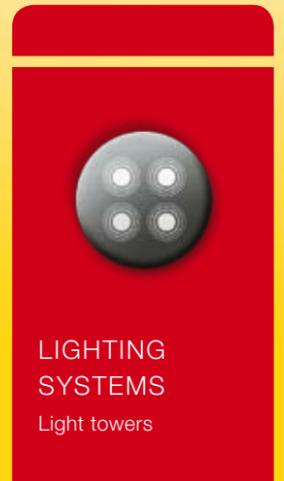
The LTN 6 combines maximum performance with user-friendly flexibility.

- Four high-pressure metal halide lamps provide extensive illumination with very bright light similar to natural daylight.
- Elliptical reflectors produce diffuse light that is spread very broadly.
- The lamps are freely movable and suspended individually.
- The light mast can be fully rotated through 360 degrees.
- Three stabilisers simplify alignment. They stabilise the system even on unlevel ground and in strong wind.
- The large tank provides bright light for seven consecutive nights – 73 hours non-stop.



- 1 The elliptical reflectors** illuminate a much larger area than round reflectors by virtue of their elliptical shape.
- 2 The inside of the LTN 6L is easily accessible and easy to maintain.**

- Its wheels make the light tower easy to transport. It has European approval for use on roads.
- The controls are clearly combined on a control panel.
- An indicator lamp identifies any faults that occur.
- The control panel is fitted with a shock-proof plug and a circuit breaker, which means that no earthing is required. This allows the unit to be set up quickly, and the operator is protected at all times.
- The proven Diesel engine with heater plugs starts up without any problem even in cold weather.
- Automatic engine shutdown prevents damage to the engine when the oil level is low and the liquid coolant temperature is high.



Simple. Practical. And extremely bright: The basic unit LBA 1.



UNIQUE
HANDINESS.

The ballast switches on the metal halide lamp.



The light balloon shown open here is held open mechanically. No inflation etc.

The light balloon for speedy use:

- Ready to use within a few minutes, thanks to its small number of parts and the system's simple design.
- 1,000 Watt output metal halide lamp.
- Glare-free, very bright light thanks to an intelligent lamp shade: The lower textile-covered side diffuses the light while the upper aluminium-coated side provides a high downward luminous efficiency.
- The diffuse light prevents hard contrasts and produces light free of umbra shadow.
- No inflation: Speedily assembled rod assembly in the balloon.
- Packed extremely small and very handy.
- Handy ballast for switching on the lamp.
- Versatile, as it can be easily secured anywhere, such as on scaffolding or an asphalt paver.



Glare-free high up: The light balloon LB 1.

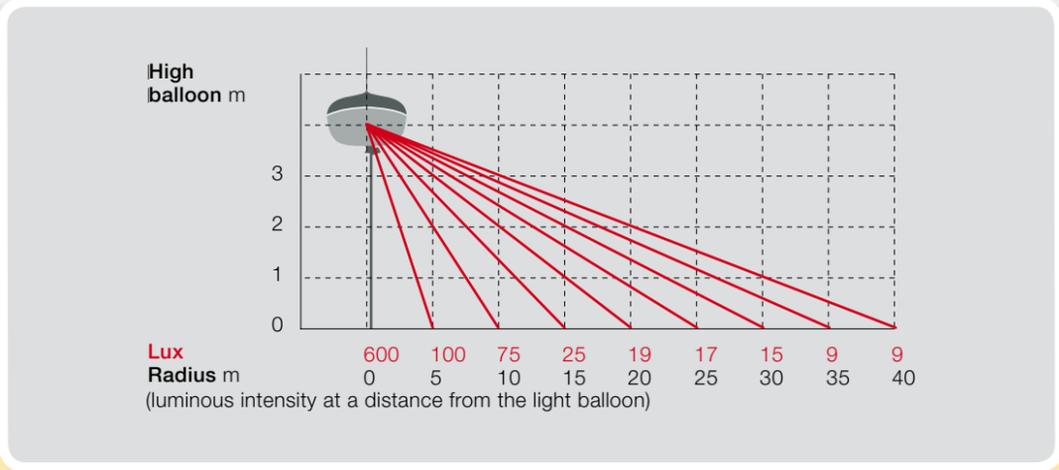


LB 1



Light where you need it:

- The supplied tripod makes the light balloon independent.
- The anchor set fully secures the light balloon on the tripod or on the ground so that there is no possibility of it falling over.
- Powerful 1,000 Watt metal halide lamp.
- Glare-free, very bright light.
- The lower textile-covered side of the lamp shade diffuses the light while the upper aluminium-coated side provides a high downward luminous efficiency.
- Diffuse light avoids shadows.
- No inflation: Speedily assembled rod assembly in the balloon.
- When extended, the tripod is over 5 metres high. This enables even large areas to be brightly illuminated.
- The light balloon is ready to use within a few minutes, thanks to its small number of parts and the system's simple design.
- Ballast for switching on the lamp.



The luminous intensity of the LB 1.



The complete package for portable lighting: LBM 1.



LBM 1

LIGHT SOURCE
+ TRIPOD
+ GENERATOR
+ TROLLEY

Ready to use anywhere at any time:

- Light source, tripod, generator and trolley all in one.
- Glare-free light: The transparent lower textile cover diffuses and evenly distributes the very bright light of the metal halide lamp.
- Diffuse light avoids shadows.
- Sturdy base frame with a solid structure.
- Tripod with a handy crank. Total height when extended over 3 metres.
- If necessary, the generator can be replaced and adapted to special requirements, e.g. for using auxiliary tools.
- Fast assembly and disassembly thanks to its simple construction.
- The sturdy design allows it to be used in all conditions.

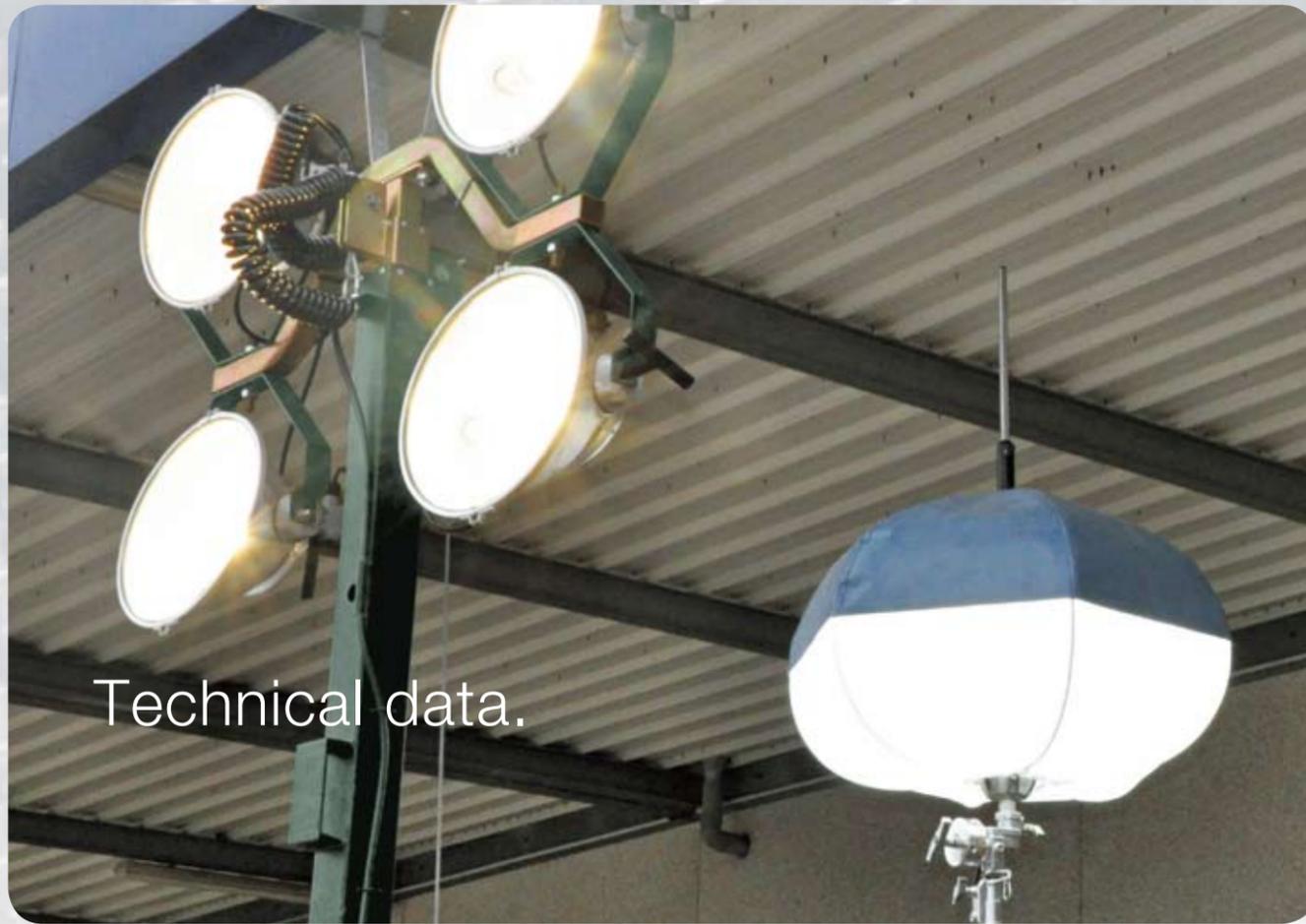


The trolley makes the light balloon portable and suitable for use anywhere.



Powerful Wacker Neuson generator with a long service life and a large tank for long work periods without refuelling interruptions.





Technical data.

TECHNICAL DATA		LTN 6L
L x W x H (in transport position) mm		3,918 x 1,265 x 1,790
Operating weight kg		865
Transport weight kg		767
Max. mast height m		9
Noise level dB(A) to 7 m		66
Capacity kW		6
Frequency Hz		50
Nominal voltage V		230
Power factor cos φ		1
Voltage control % zero load to full load %		6 10
Lamp type metal halide (W)		1,000
Illumination m ² @ 5.4 lux		30,400
Generator insulation class		H
Speed rpm		1,500
Generator type		Brushless
Drive		Water-cooled 3-cylinder Diesel engine
Engine manufacturer		Lombardini
Cylinder capacity cm ³		1,028
Max. nominal power kW (HP)		8.5 (11.4)
At nominal speed rpm		1,500
Nominal power in acc. with		ISO 3046 IFN
Tank capacity (fuel) l		123
Fuel consumption l/h		1.68

TECHNICAL DATA		LBA 1	LB 1
L x W x H mm		900x900x600	1,960x1,960x2,622
Max. / min. balloon height m		-	6.2 / 2.6
Operating weight kg		28.4	47.9
Transport weight kg		34.3	50.1
Operating temperature °C		-22 to 35	-22 to 35
Lamp type		Metal halide	Metal halide
Lamp power W		1,000	1,000
Light current lm		99,000	99,000
Illumination (light at 4 m height) m ² @11 Lux		3,317	3,317
Balloon diameter mm		900	900
Balloon height mm		600	600
Voltage (AC) V		230	230
Starting current A		7.4	7.4
Operating current A		4.0	4.0
Frequency Hz		50	50
Plug type		Shock-proof	Shock-proof
Cable length (balloon to ballast) m		7	7
Cable length (ballast to generator) m		3	3

TECHNICAL DATA		LBM 1
Balloon dimensions mm		900x600
Max. tripod height mm		3,700
Light current lm		99,000
Holder		E40 (at 230 V)
HQI lamp W		1,000
Lamp type		Metal halide
Max. power kVA		2.36
Max. continuous output kVA		2.30
Nominal current A		10.0
Nominal voltage V		230
Power factor cos φ		0.9
Engine manufacturer		Honda
Tank capacity (fuel) l		11.0
Operating time (under continuous load) h		11.8
Connecting sockets		2 x shock-proof 230 V, 16 A
Transport state: L x W x H mm		1,116 x 700 x 1,700
Operating state: L x W x H (max.) mm		1,844 x 2,563 x 5,160
Weight: Trolley + GV 2500A (fully fuelled) kg		207.3
Weight: Trolley excluding generator kg		156.80

**High-quality accessories
from Wacker Neuson.**
Quality that pays off.

**Power generators and lighting systems
on construction sites must do one thing
above all else: They must work.**

And they must work for very long periods
in all weather conditions. Thanks to high-
quality original parts from Wacker Neuson,
this is no problem at all for our equipment.
On the contrary. Equipment and accessories
from Wacker Neuson are specially made for
operational endurance.



ACCESSORIES

Accessories

Accessories for generators and lighting systems

From Wacker Neuson.



ACCESSORIES FOR PORTABLE GENERATORS	GV 2500A	GV 5000A	GV 5003A	GV 7000A	GV 7003A	G 7AI	GS 12AI	GH 3500
Wheel kit	●	●	●	●	●	●	incl.	○
Crane suspension	○	○	○	○	○	incl.	●	○

ACCESSORIES FOR MOBILE GENERATORS	G 22	G 32	G 43	G 66	G 78
Trailer with European approval for road use	●	●	●	●	●
External automatic back-up system	●	●	●	●	●

ACCESSORIES FOR LIGHT BALLOONS	LBA 1	LB 1	LBM 1
Tripod	●	incl.	incl.
Ball-head joint	●	●	●

● available
○ not available



For Wacker Neuson
there's no such
thing as a
power supply problem.

The large selection of generators in the Wacker Neuson product range provides the right power supply for every job. With these, we operate equipment for concrete technology, hammer drills, pumps, heaters, lighting systems and everything associated with work on a construction site. This makes us completely independent of the public electricity mains and efficiently assists working processes.

Tell us your job requirements – we would be happy to find the right generator for you.



GENERATOR USES

Generator uses

Overview power consumers

	Voltage / frequency V / Hz	Input current A	Type	Power VA	GV 2500A	GV 5000A	GV 7000A	GV 5003A	GV 7003A	G 7AI	GS 12AI	GH 3500
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CONCRETE TECHNOLOGY

IRFU 30 - 65	230/50	2.2-10.0	ind.	1,380	●	●	●	●	●	●	●	●
IRSE-FU 30 - 57	230/50	3.5-6.0	ind.	1,380	●	●	●	●	●	●	●	●
FU 1.5/200W	230/50	9.0	ind.	2,100	●	●	●	●	●	●	●	●
FU 1.8/200	400/50	5.0	ind.	3,500				●	●	●	●	●
FU 4/200	400/50	10.0	ind.	6,900					●	●	●	●
FU 5z	400/50	13.2	ind.	9,200						●	●	●
FUE 1	230/50	9.6	ind.	2,200	●	●	●	●	●	●	●	●
FUE 2	230/50	13.0	ind.	3,000		●	●	●	●	●	●	●
KTU 2	230/50	13.0	ind.	3,000		●	●	●	●	●	●	●
FUE 6/042/200W(SC)	230/50	9.6-14.8	ind.	5,500					●	●	●	●
M 1000	230/50	4.5	ind.	1,000	●	●	●	●	●	●	●	●
M 2000	230/50	6.5	ind.	1,500	●	●	●	●	●	●	●	●
M 3000	230/50	10.0	ind.	2,300	●	●	●	●	●	●	●	●
AR 36/6/042	42/200	9.0	-	-								●
IREN 30 - 65	42/200	3.5-25.0	-	-								●
IRSEN 30 - 57	42/200	3.5-17.3	-	-								●

REINFORCING BAR TECHNOLOGY

RCP 12_16_20_25_32	230/50	5.8-6.8	ind.	1,400	●	●	●	●	●	●	●	●
RCE 16_20_25	230/50	5.3-5.8	ind.	1,800	●	●	●	●	●	●	●	●

HAMMERS

EH 6M	230/50	7.0	ind.	1,610	●	●	●	●	●	●	●	●
EHB 7M	230/50	7.0	ind.	1,610	●	●	●	●	●	●	●	●
magic	230/50	7.5	ind.	1,725	●	●	●	●	●	●	●	●
EH 23/230	230/50	10.8	ind.	2,484		●	●	●	●	●	●	●
EH 22/400	400/50	6.9	ind.	2,768				●	●	●	●	●

LUMINOUS FLUX PUMPS (1~)

400 W	230/50	-	ind.	600 full load / start	●	●	●	●	●	●	●	●
500 W	230/50	-	ind.	670 full load / start	●	●	●	●	●	●	●	●
750 W	230/50	-	ind.	1,450 full load / start	●	●	●	●	●	●	●	●

THREE-PHASE PUMPS (3~)

1,500 W	400/50	-	ind.	2,350 full load / start		●	●	●	●	●	●	●
2,200 W	400/50	-	ind.	3,800 full load / start		●	●	●	●	●	●	●
3,700 W	400/50	-	ind.	5,190 full load / start				●	●	●	●	●
5,500 W	400/50	-	ind.	7,470 full load / start					●	●	●	●
7,500 W	400/50	-	ind.	9,900 full load / start						●	●	●
11,000 W	400/50	-	ind.	14,500 full load / start							●	●

ELECTRIC SPACE HEATERS

Heating fan HE 3	230/50	-	-	3,030	●	●	●	●	●	●	●	●
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GAS/OIL HEATERS FOR OPERATING THE FANS

Gas heaters HGM/HGA	230/50	-	-	-	●	●	●	●	●	●	●	●
Oil heaters HD/Hi/HM	230/50	-	-	-	●	●	●	●	●	●	●	●

AIR DEHUMIDIFIERS

AD	230/50	-	-	-	●	●	●	●	●	●	●	●
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LIGHTING SYSTEMS

Light balloon	230/50	-	-	-	●	●	●	●	●	●	●	●
Halogen spotlights	230/50	-	ohm	500-2,000	●	●	●	●	●	●	●	●
Bulbs	230/50	-	ohm	500-2,000	●	●	●	●	●	●	●	●

POWER TOOLS

Power drills	230/50	-	ind.	600-1,000	●	●	●	●	●	●	●	●
Rotary hammers	230/50	-	ind.	600-1,600	●	●	●	●	●	●	●	●
Manual circular saws	230/50	-	ind.	1,000-2,000				●	●	●	●	●
Fans	230/50	-	ind.	500-1,000	●	●	●	●	●	●	●	●

CONSTRUCTION SITE / TABLE CIRCULAR SAWS*

Single-phase saws (1~)												
BTA 90	230/50	-	-	2,500	●	●	●	●	●	●	●	●
BTA 90	230/50	-	-	3,000	●	●	●	●	●	●	●	●
ATU 450	230/50	-	-	2,000				●	●	●	●	●
ABK/ABH 400	230/50	-	-	2,000				●	●	●	●	●
Three-phase saws (3~)												
BTA 90	400/50	-	-	3,300					●	●	●	●
ATU 450	400/50	-	-	3,500							●	●
ABK/ABH 400	400/50	-	-	3,000							●	●
ABK/ABH 450	400/50	-	-	4,000								●
ABK/ABH 500	400/50	-	-	5,000								●

ELECTRICAL WELDING EQUIPMENT

Up to electrode Ø 2.50 mm	230/50	-	ind.	2,500-3,000				③	④	⑤	●	●
Up to electrode Ø 3.25 mm	230/50	-	ind.	3,500-5,000				④	⑥	●	●	●
Up to electrode Ø 3.25 mm	400/50	-	ind.	5,000-8,000				④	⑥	●	●	●

PLASTIC WELDING EQUIPMENT

Friatec Friamat Series	-/-	-	-	-	●	●	●	●	●	●	●	●
Hürner HN-SC/HW-SC 400/L	-/-	-	-	-	●	●	●	●	●	●	●	●
Hürner HST 300 junior/ junior+ / Print/t	-/-	-	-	-	●	●	●	●	●	●	●	●

* Atika ● available ③ Less than 3,000 VA ④ Less than 4,000 VA ⑤ Less than 5,000 VA ⑥ Less than 6,000 VA