



## DGHW 220

Portable Welding Range



 POWER (PRP):  
6,5 kVA / 5,2 kW

 FREQUENCY  
50Hz

 VOLTAGE  
400/230V

 WEIGHT WITH WHEELS:  
92kg

 DIMENSIONS WITH WHEELS:  
L: 863 mm  
W: 696 mm  
H: 661 mm

Image for orientation purposes. Transport kit is included in the standard scope of delivery. Dagartech reserves the right to modify the data in this technical sheet without prior notice.

 Unleaded gasoline

 EU Stage V

 Air-cooled

 Moving chassis

 CE certified

## 1. General technical data

### General technical data

Engine	HONDA GX390	
Alternator	SINCRO EW 220 DC	
Frequency	50Hz	
Voltage	400/230V	
Work regime (rpm)	3000	
Power factor (cos φ)	0.8	
Welding current (A)	220 A*	
Electrode diameter (mm)	4,5	
Auxiliary output (kVA)	230V	3,5
	400/230V	6,5
Tank (l)	6,1	
Type of start-up	Manual	
<b>PRP (kVA / kW)</b>	<b>6,5 / 5,2</b>	

The transport kit is included in the standard scope of supply of this equipment.

Model	Service (A) 35% / 60%
DGHW 170	180 / 125
DGHW 200	200 / 180
DGHW 220 MF	220 / 170
DGHW 220	220 / 170

\*PRP: Prime Power according to ISO8528-1.

### Directives and Regulations

#### ENVIRONMENTAL CONDITIONS STANDARD ISO 8528-1:2018: 25°C, 100kPa and 30% relative humidity:

- Prime Power (PRP):** Data on electrical power available at variable load without limit of hours per year. An overload of 10% is allowed for 1h out of 12. According to ISO 8528-1:2018.
- Emergency Standby Power (ESP):** Data on electrical capacity available at variable load in case of emergency according to ISO 8528-1:2018.

#### The DAGARTECH Generator bears the CE marking which includes the following directives:

- 2006/42/EC. Machine Safety Directive.
- EN ISO 8528-13:2016. Part 13: Safety. Alternating current generators powered by reciprocating internal combustion engines.
- 2014/30/EU. Electromagnetic Compatibility Directive.
- 2000/14/EC. Noise Emissions Directive. Sound power levels evaluated in accordance with the procedure laid down in the directive.
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS<sup>2</sup>).

400/230V · 50Hz (3000 rpm)

HONDA GX390 | SINCRO EW 220 DC

**2.1.**  
**General technical data of the engine**

<b>Make and model</b>	<b>HONDA GX390</b>
r.p.m.	3000
Continuous power - 3,000 rpm (kW/m)	N/A
Max. net power - 3600 rpm (kW/m)	8,7*
Type of regulation	centrifugal mass
Fuel	Unleaded gasoline
No. of cylinders	1
Cylinder capacity (c.c.)	389
Compression ratio	8,2:1
Maximum torque (Nm)	26,4 (2500 r.p.m.)
Cooling system	Air-cooled
Start-up Method	Manual



4-STROKE-PETROL ENGINE. AIR-COOLED.



\* Gross power data for VANGUARD and BRIGGS-STRATTON engines.

**2.2. Fuel**

<b>Type of fuel</b>	Unleaded gasoline
Tank capacity	6,1

**2.3. Consumption and autonomy**

	Consumption (l/h)		Autonomy (h)	
	PRP	ESP	PRP	ESP
75%	1,8	-	3,4	-
100%	2,4	-	2,5	-

**2.4. Lubrication system**

Oil capacity (l)	1,16
Oil consumption (L/H)	N/A

**3. Alternator specifications**
**3.1. General technical data of the alternator**

<b>Make and model</b>	<b>SINCRO EW 220 DC</b>
No. of poles	2
Insulation class	H
Mechanical protection index	IP23
Welding current type	D.C.
Welding current	220 A
Electrode type	Rutile, cellulosic, basic
Electrode diameter (mm)	4,5
Ignition voltage	73V
Welding voltage	21,6 - 28,8V
Auxiliary output, 230V (kVA)	3,5
Auxiliary output, 400/230V (kVA)	6,5
No. of phases	3
Power factor ( $\cos \phi$ )	0,8


**Standard regulations that the alternator meets:**

Directives: 2006/42, 2006/95, 2004/108 and amendments thereto.

Complies with: EN 60034-1, CEI 2-3, IEC34-1, VDE 0530, BS 4999-5000, N.F. 51111.

**2-pole alternator.**

No maintenance required.

**Winding protection** by impregnation with tropicalised epoxy resin.

400/230V · 50Hz (3000 rpm)

HONDA GX390 | SINCRO EW 220 DC

## 5. Standard scope of supply for the Welding range

### STANDARD SCOPE OF DELIVERY

HONDA GX390 Manual starter engine	✓
Alternator SINCRO EW 220 DC	✓
Original HONDA metal fuel tank	✓
Compact electro-welded steel frame with anti-vibration dampers	✓
Top protective metal plate	✓
Transport kit (includes solid puncture-proof wheels, handles, and stand).	✓
Welding kit (includes 4 meters of welding cable, 2 meters of ground and clamps. Welding mask not included).	✓
Supply without engine lubrication oil	✓
Engine oil protection	✓
Fuel stopcock	✓
Alternator thermal protection	✓

### ALTERNATOR POWER SOCKETS CONFIGURATION

	IP44	CEE IP44	CEE IP44
	Schuko	2P + T 32A	3P + N + T 16A
<b>DGHW 170</b>	2	-	-
<b>DGHW 200</b>	1	1	-
<b>DGHW 220 MF</b>	1	1	-
<b>DGBW 220</b>	1	-	1
<b>DGHW 220</b>	1	-	1



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