

ENGINE DRIVEN WELDER MS 200 S

- DC welder
- One man carry (28 kg)
- Two - stroke engine
- Auto Idle
- Includes welding cables



Standard equipment



Gasoline engine



Air cooling



Manual recoil



Welding cables



Generator high frequency

Options on request



- Inductance to improve welding performance RL1

Technical data

MS 200 S

D.C. WELDING

High frequency, self-excited, brushless

Current range, continuous

50 - 165 A

Open circuit voltage

50 V

Duty cycle

165 A - 35%, 140 A - 60%

Electrode diameter

2 - 4 mm

Insulating class

H

ENGINE

Gasoline, 2-stroke, air cooled

Type

MOSA

Output *

6.6 kW (9 HP)

Speed

6000 rpm

Displacement / Cylinders

 125 cm³/1

Fuel system

gasoline/oil mixture (50 : 1)

Fuel consumption

530 g/kWh

* Maximum output (not overloadable) according to ISO 3046/1

GENERAL SPECIFICATIONS

Tank capacity

3 l

Running time (at duty cycle 60%)

1.5 h

Protection

IP 23

Dimensions Lxwxh (mm)

570x300x410

Weight

28 kg

Noise level

101 LWA (76 dB(A) - 7 m)

ENGINE DRIVEN WELDER MSG CHOPPER

- Arc welding source in D.C. welding
- Coated electrode welding (STICK)
- D.C. generator
- Chopped D.C. auxiliary current (safe for tools)
- Output Socket: 1x230V 16A 2P+T EEC
- Portable (28.5 kg)
- Two - stroke engine
- Economizer (Auto-Idle)
- Includes welding cables
- Meets EC directives



Standard equipment ▶											
	Gasoline engine	Air cooling	Manual recoil	Auto Idle							
Options on request ▶											
	Generator high frequency	Socket	Fuse	Welding cables							
	● 230V Plug			● Level reactor							

Technical data

MSG CHOPPER

D.C. WELDING (Constant Current)

Current range, continuous	50 - 165 A
Duty cycle	165 A - 35% / 140A - 60%
Open circuit voltage	50 V

D.C. GENERATION

High frequency, self-excited, brushless

Single-phase generation	2 kW / 230 V c.c. / 8.7 A
Insulation class	H

ENGINE

Gasoline, 2-stroke, air cooled

Model	MOSA
* Output	6.6 kW (9 HP)
Speed	6000 rpm
Displacement / Cylinders	125 cm ³ / 1
Fuel system	gasoline/oil mixture (50 : 1)
Fuel consumption (welding 60%)	2 l/h

* Maximum output (not overloadable) according to ISO 3046/1

GENERAL SPECIFICATIONS

Tank capacity	3 l
Running time (welding 60%)	1.5 h
IP protection degree	IP 23
Dimensions LxIhx (mm)	570x300x410
Dry weight	28.5 kg
* Acoustic power LwA (pressure LpA)	101 dB(A) (76 dB(A) @ 7 m)

* For fixed installation only

ENGINE DRIVEN WELDER TS 400 YS

The images are for reference

WELDING PROCESS



SMAW Shielded Metal Arc welding (STICK)



Gas Tungsten Arc Welding (TIG)



FEATURES

- D.C. Arc welding source
- Electronic regulation of welding current and arc force
- Double welding range
- Welding control panel "EVO CONTROL"
- Arc Gouging socket
- A.C. generator, single-phase and three-phase also available while welding
- Engine control digital module
- VRD - Voltage reduction device (only with EVO INSTRUMENT)
- Central lifting eye
- Wide access for easy maintenance
- Meets EC directives for noise and safety

DEFINITIONS



EVO CONTROL
Welding current regulation
Welding arc regulation
Welding scale selection



EVO INSTRUMENT
Welding current regulation
Welding arc regulation
Welding scale selection
Digital ammeter - welding current
Digital voltmeter - welding voltage
VRD Indicator



water cooled



diesel



electric starter

ENGINE 1500 RPM

4 STROKE, DIRECT INJECTION, NATURAL ASPIRATED

Model	YANMAR 4TNV88
* Stand-by net power	18 kW (24.5 hp)
* PRP net power	16.4 kW (22.3 hp)
* COP net power	/
Cylinder / Displacement	4/ 2.19 lit.
Bore / Stroke	88 / 90 (mm)
Compression ratio	20 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	5 lit./h
100 % of PRP	4.5 lit./h
75 % of PRP	3.4 lit./h
50 % of PRP	2.6 lit./h
25 % of PRP	/
COOLING SYSTEM	
Total system cap. - only engine	2.7 lit.
Fan air flow	50 m³/min
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	3.4 lit. (min) - 7.4 lit. (max)
	/

Oil consumption at full load	/
EXHAUST SYSTEM	
Maximum exhaust gas flow	520 °C
Max. exhaust gas temp.	9.8 kPa (0.1 bar)
Maximum back pressure	/
External diameter exhaust pipe	12 Vdc
ELECTRICAL SYSTEM	
Starter motor power	1.4 kW
Battery charging alternator cap.	40 A
Cold start	- 15 °C
AIR FILTER	
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	1.48 m³/min
To water and oil	/
Radiated to room	/
To charge cooler	/

* Maximum output (not overloadable) according to ISO 3046-1

WELDING AND GENERATION

CONTROL PANEL

C.C. WELDING

CONSTANT CURRENT	
Current range	20A - 400A
Type of regulation	Cardless on 2 Step: 20A - 200A / 20A - 400A
Duty cycle	400A - 60% / 300A - 100%
Open circuit voltage	72 Volts (72 A Volts @ 100%)
Arc force control	SI

SIMULTANEOUS LOAD CHARACTERISTIC

WELDING CURRENT	2 250A	175A	125A	75A	5A
POWER IN THREE PHASE 400V	0.16A	0.5A	1.1A	3.1A	30.1A
POWER IN SINGLE PHASE 230V	0.16A	0.5A	1.1A	3.1A	30.1A
POWER IN SINGLE PHASE 110V	0.16A	0.5A	1.1A	3.1A	30.1A

GENERAL SPECIFICATIONS

Load bank capacity	600 l
Full consumption (welding)	3.1 A @ 100%
Running time (welding)	19 h
IP protection degree	IP 23
Max. ambient temperature	40 °C
Max. ambient humidity	94% RH (40 °C) up to 7 m
Max. ambient pressure	94% RH (40 °C) up to 7 m

A.C. GENERATION

Insulation class	F
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AUXILIARY GENERATION

OUTPUT 1	
Type of source	3-phase
Frequency	50 Hz
Apparent Power + Active Power	100 kVA / 70 kVA
Cost up	0.8
Voltage	690 V
Current	23.1 A
OUTPUT 2	
Type of source	1-phase
Frequency	50 Hz
Apparent Power + Active Power	10 kVA / 7 kVA
Cost up	0.8
Voltage	230 V
Current	43.5 A
OUTPUT 3	
Type of source	3-phase
Frequency	50 Hz
Apparent Power + Active Power	50 kVA / 35 kVA
Cost up	1
Voltage	690 V
Current	40.5 A
OUTPUT 4	
Type of source	1-phase
Frequency	50 Hz
Apparent Power + Active Power	5 kVA / 3.5 kVA
Cost up	1
Voltage	230 V
Current	10.4 A

ENGINE

- Complies with CE marking
- Engine protector thermal circuit breaker: 1A/50A
- Engine protector thermal circuit breaker: 1A/50A
- Emergency stop button

FEATURES CONTROLLED BY MOSA	
Starting Mode	MANUAL / REMOTE
Display	Graphic back-light LCD display
Measure generator	NO
Measure engine	NO
Protecting generator	NO
Protecting engine	NO

WELDING

- Continuous control of the welding current from 20A to 400A or 20A to 200A
- Welding range switch
- Continuous control of the arc force
- Connection of remote control with automatic "local / remote" switch at the insertion of the plug
- Welding output sockets:
 - 1x Welding (+) 600A
 - 1x Welding (-) 600A
 - 1x Only gasping (+) 600A
 - 1x Only gasping (-) 600A
 - 2x Display - 4 Digit
 - 2x Set the welding current
 - Current and voltage Measurement during the welding process
 - VMD ON/OFF switch (inside electrical box)

GENERATION

- Earth leakage circuit breaker
- Circuit breaker for 230V - 32A sockets
- Circuit breaker for 230V - 16A sockets
- Output sockets: 1x 400V 12A 2P + N + PE CEE
- 1x 230V 32A 2P + N + PE CEE
- 1x 230V 16A 2P + N + PE CEE
- 1x 2 output terminals 200A (for 400V)
- Earth terminal (PE)

WEIGHT - DIMENSIONS ACCESSORIES

TS 400 YS

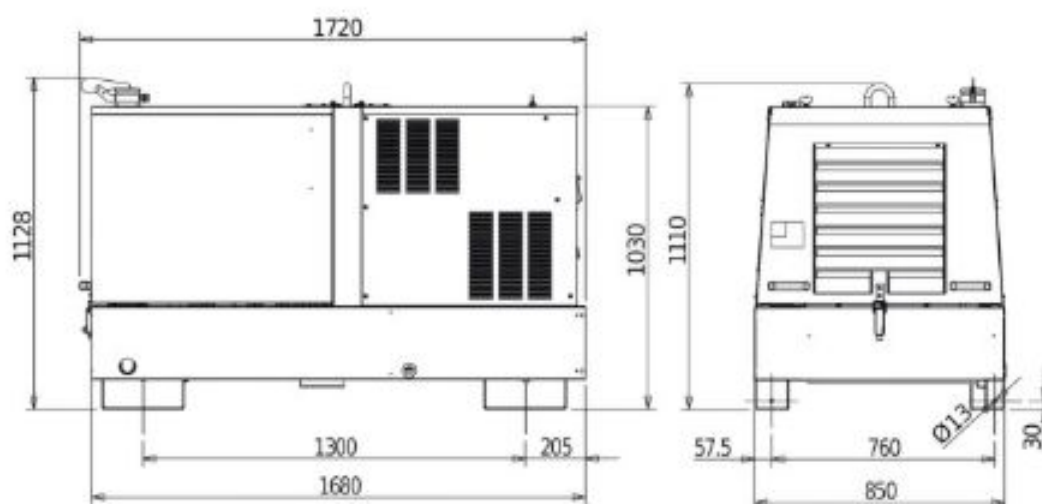


DRY WEIGHT:
• 750 Kg

The welding machine pictured may include optional accessories.



DIMENSION PICTURE



OPTIONS ON REQUEST

- Remote control RC2
- Remote control RCE (with EVO instrument panel)
- Remote control extension cord (30m)
- Welding cables K500 (20+15 m, 50 mm²)
- Welding kit (mask gloves, etc.)
- Earthing kit
- Site tow CTL22
- Site tow trailer, 4 wheels, 2 steering wheels, ball joint
- Road tow running gear CTV1
- Locking Fuel Cap



VERSION ON REQUEST

- Version : 400V/230V
 - 1x400V 32A 3P+N+T IP67 CEE
 - 1x230V 32A 2P+T IP67 CEE
 - 1x230V 16A 2P+T IP67 CEE
 - 1x230V 16A 2P+T SCHUKO
- Version : 400V/230V/110V CTE
 - 1x400V 16A 3P+N+T IP67 CEE
 - 1x230V 32A 2P+T IP67 CEE
 - 1x110V 32A 2P+T CEE
 - 1x110V 16A 2P+T CEE



OPTIONS FACTORY INSTALLED

- EVO instrument panel
- Polarity change (only with EVO instrument panel)
- Gauges - water temperature and oil pressure
- Spark arrestor

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)
2014/35 / EU (Low Voltage Directive)
2014/30 / EU (EMC Directive)
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0182

WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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GENERATING SET GE 90 BSX



AVR

FEATURES

- Manual digital control panel
- Electronic speed governor
- Four pole circuit breaker
- Automatic voltage regulation "AVR"
- Display of fuel level, water temperature and oil pressure on the control unit
- Low level water radiator sensor
- Central lifting eye
- Bundled base with drain plug
- Oil drain pump
- Meets EC directives



water cooled



diesel



three-phase



electric starter

POWER RATINGS

* Stand-By three-phase power (LTP)	88 kVA (70.4 kW) / 400V / 127 A
* PRP three-phase power	80 kVA (64 kW) / 400V / 115.5 A
* PRP single-phase power	57 kVA (45.6 kW) / 400V / 82.3 A
Frequency	50 Hz
cos φ	0.8

* Output powers according to ISO 8528-1

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly limited numbers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 1500 RPM

4 STROKE, DIRECT INJECTION, TURBOCHARGED

Model	BAUDOUIN 4M11G90/5
* Stand-By net power	79.5 kW (108 hp)
* PRP net power	72.5 kW (99 hp)
* COP net power	49.5 kW (67 hp)
Cylinders / Displacement	4 / 4500 cm ³ (4.5 lt.)
Bore / Stroke	105 / 130 (mm)
Compression ratio	18 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	1440 kPa
Speed governor type	Electronic
FUEL CONSUMPTION	
110 % (Stand-by power)	20.7 lt./h
100 % to PRP	18.6 lt./h
75 % to PRP	13.7 lt./h
50 % to PRP	9.4 lt./h
COOLING SYSTEM	
Total system cap. - only engine	17 lt - 5.3 lt.
Fan air flow	146 m ³ /min.
LUBRICATION SYSTEM	
Total oil system capacity	13 l
Oil capacity in sump	9 lt + 11 lt.
Oil consumption at full load	< 0.02 l/h

EXHAUST SYSTEM

Maximum exhaust gas flow	17 m ³ /min.
Max. exhaust gas temp.	550 °C
Maximum back pressure	6 kPa (0.06 bar)
External diameter exhaust pipe	/

ELECTRICAL SYSTEM

12 Vdc	
Starter motor power	4 kW
Battery charging alternator cap.	80 A
Cold start	-10°C
With cold start aid	-30 °C

AIR FILTER

Dry	
Combustion air flow	4.8 m ³ /min

HEAT REJECTED AT FULL LOAD

To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

* Output powers according to ISO 3046-1

ALTERNATOR

STHEMOUR, FREE-PIASE, SELF-POWERED, SELF-HEATING, SELFLESS	
Continuous pump	80 A/W
Stand-by power	80 A/W
Three phase voltage	380 - 440 Vac
Frequency	50 Hz
Gas up	0.6
Model A/VH	M/VH (M/VH A1234)
Voltage regulation acc.	± 0.5 %
Sustained level circuit current	± 31%
Transient (up 100%, load)	< 20-25 %
Recovery time	< 0.3 ms
Efficiency at 100% load	89.5 % (90% - Cos ϕ 0.8)
Impedance	Class II
Connection - terminals	Size - 8/12
Electromagnetic compatibility (E.M.C.)	EN 55011
Maximum duration - 110	< 2 %
Maximum temperature - 110	< 2 %

GENERAL SPECIFICATIONS

Full ball capacity	230 ft.
Swinging time (75% to 200%)	50 ft.
Strike duty	13 Ws / 100Ab / 7256 CCATN
Protection device	30.01

REFRACTANCES (80 kV _m - 4000M)	
Direct and transparent - 3d	30.1 %
Direct and transparent - 3d	29.8 %
Subsaturated and transparent - 3d	14.4 %
Quasi-clear and transparent - 3d	16.0 %
Quasi-clear and transparent - 3d	15.8 %
Negative sequence - 3d	15.3 %
Zero sequence - 3d	7.5 %
TIME CONSTANT	
Transient - 3d	0.08 sec
Subsaturated - 3d	0.01 sec
Quasi-clear - 3d	0.001 sec
Armature - 3d	0.000 sec
Short-circuit ratio (SCR)	0.25
Grade of Protection (IP)	IP 23
Creeping at low	9.2 mm/sec
Creeping at low	Direct 3d 3 - 11 h - M ²

* Measured static power loss (passive load)	04.3 dBm (0.3 dBm @ 70%)
** Guaranteed average power loss (dynamic load)	40 dBm (7 dBm @ 70%)
Performance class ISO 8520	D3

CONTROL PANEL

- Controller IntelliAMP25
- Controller supply switch
- Screen
- Emergency stop button
- IOM 15 remote control plug
- Four pole circuit breaker
- PAC (ATS) plug - Automatic control panel only
- Battery charger - Automatic control panel only
- Earth terminal (PE)



ANPDS CONTROL UNIT CHARACTERISTICS	
Operating mode	• OFF - MAN, AUTO - TEST
Display LEDs	• Graphic back light LCD display (24x4 points) • Gas-aid voltage 5K • Fire set alarm • CAN ON (only for Automatic transfer unit) • Main voltage OK (only for Automatic transfer unit) • Motor balance (only for Automatic transfer unit) • MG3 ON (only for Automatic transfer unit)
Buttons	• SCART button • STOP button • FUEL 16-50T button • RESET NGPM button • MOTOR selection button • Pulsante chiamata/autoriusa GCS button • Pulsante chiamata/autoriusa MG3 button • N° 4 buttons for controller programming
Generator Measures	• Voltage: V1-V2-V3-V4-V5-V6-V7-V8-V9 • L2N-L3 • Current: I1 - I2 - I3 • Power: MW - kVA - KVAR (total e per fase) • Energy: kWh - kVARh - kWhp • Cos ϕ (total and per phase) • Frequency
Engine Measures	• Water temperature • Oil pressure • Fuel level • Rain meter • Battery voltage • Manifold • Hours meter • Fault number
Generator Protections	• Overload • Over-current • Short circuit • Over-Voltage/high • Over-Frequency • Voltage unbalance • Unbalanced current • Phase sequence
Engine Protections	• Over-speed • High water temperature warning • Low oil pressure warning • Low fuel level warning • Over-Volter battery voltage • Battery charge alternator failure • Start failure • Stop failure • Emergency stop • Low water level shutdown (optional)

	ABB function selector: central panel only ABB function selector: central panel only	ABB function selector: central panel only
ABB function selector: central panel only	ABB function selector: central panel only	ABB function selector: central panel only

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SOURCE:
Each circuit is protected by one automatic switch.
Circuit breaker for 12A and 20A models.
1x 12A and 20A 3P+N+PE
1x 25A 400V 3P+N+PE
1x 32A 400V 3P+N+PE
1x 16A 400V 3P+N+PE
1x 20A 3P+N+PE
1x 25A 3P+N+PE

WEIGHT - DIMENSIONS AND ACCESSORIES

GE 90 BSX



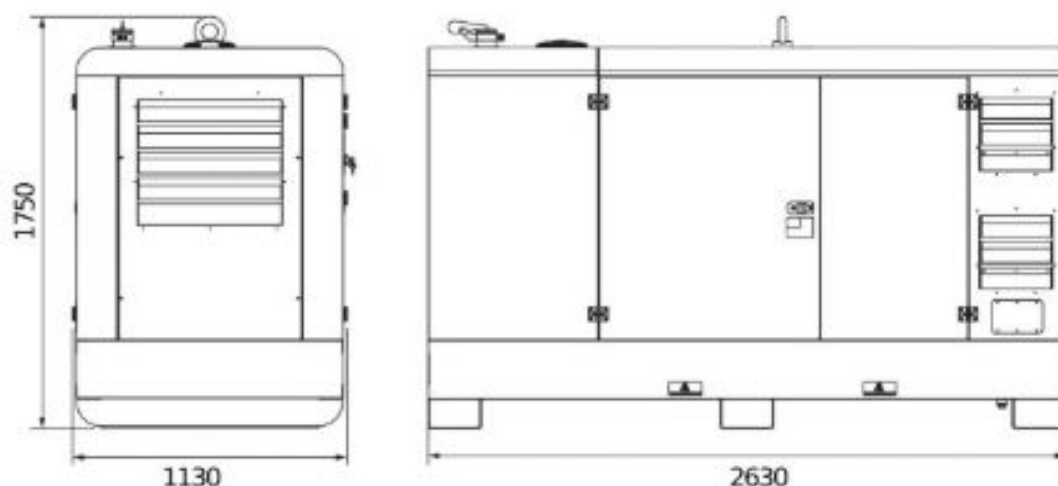
DRY WEIGHT MACHINE:

- 1700kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW



OPTIONS ON REQUEST

- Automatic transfer switch unit (ATS) PAC 111-M (160A)
- Remote control TCM35
- Earthing kit



VERSIONS ON REQUEST

- The electrical panel with Sockets CEE
- Manual digital control panel (without sockets)
- Parallel switch board



FACTORY INSTALLATION OPTIONS

- Electronic leakage relay
- Isometer
- Volt adjustable from control panel
- Tank 350l
- 3-way valve fuel system with quick connection for external fuel tank supply
- Engine water heater WH
- Spark arrestor
- Main battery switch
- Low level water sensor
- Plug-in module with double RS232 and RS485 ports
- GSM modem with antenna
- GPS / 4G modem with antenna
- Internet / Ethernet plug-in module with Web Server
- Reporting card 15 alarms / states (ref. IGL-RA15)
- Input / Output extension module (N° 16 tot.)

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)
2014/35 / EU (Low Voltage Directive)
2014/30 / EU (EMC Directive)
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2008 - Cert. 0132

WARRANTY

All devices are covered by the manufacturer's warranty.

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GENERATING SET GE 165 FXC

The images are for reference



FEATURES

- Automatic voltage regulation "AVR"
- Large doors for better and easy maintenance (air, oil, fuel filters replacement)
- Control panel with digital control unit available with automatic or manual version
- Bundled base suitable to contain any liquids leakage from engine avoiding environmental pollution
- Single point lifting eye
- Meets EC directives for noise and safety



water cooled



diesel



three-phase power



electric starter

POWER RATINGS

* Stand-By three-phase power (LTP)	165 kVA (132 kW) / 400V / 238,2A
* PRP three-phase power	150 kVA (120 kW) / 400V / 216,5 A
* PRP single-phase power	122 kVA (97,6 kW) / 400V / 176,3 A
Frequency	50 Hz
cos φ	0.8

* Output powers according to ISO 8528-1

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly limited numbers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 1500 RPM

4 STROKE, DIRECT INJECTION, TURBOCHARGED

Model	FPT (IVECO) N67 TE1F (Stage 3A)
* Stand-By net power	145 kW (197.2 hp)
* PRP net power	131.5 kW (178.8 hp)
* COP net power	105 kW (143 hp)
Cylinders / Displacement	6/ 6700 cm ³ (6.7 lit.)
Bore / Stroke	104 / 132 (mm)
Compression ratio	17.5 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	1791 kPa - 1629 kPa
Speed governor type	Electronic
FUEL CONSUMPTION	
110 % (Stand-by power)	205 g/kWh - 36.5 lit./h
100 % to PRP	210 g/kWh - 34 lit./h
75 % to PRP	216 g/kWh - 26.5 lit./h
50 % to PRP	235 g/kWh - 20 lit./h
COOLING SYSTEM	
Total system cap. - only engine	25.5 lit. - 10.5 lit.
Fan air flow	228 m ³ /min.
LUBRICATION SYSTEM	
Total oil system capacity	17 lit.
Oil capacity in sump	8 lit. (min) - 12 lit. (max)
Oil consumption at full load	< 0.05 lit./h

* Output powers according to ISO 3046-1

EXHAUST SYSTEM	
Maximum exhaust gas flow	13 kg/min.
Max. exhaust gas temp.	600 °C
Maximum back pressure	5 kPa (0.05 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	3 kW
Battery charging alternator cap.	90 A
Cold start	- 10 °C
With cold start aid	- 25 °C
AIR FILTER	
Combustion air flow	10.5 m ³ /min
HEAT REJECTED AT FULL LOAD	
To exhaust system	614 kcal/kWh
To water and oil	350 kcal/kWh
Radiated to room	160 kcal/kWh
To charge cooler	125 kcal/kWh

WEIGHT - DIMENSIONS AND ACCESSORIES

GE 165 FXC

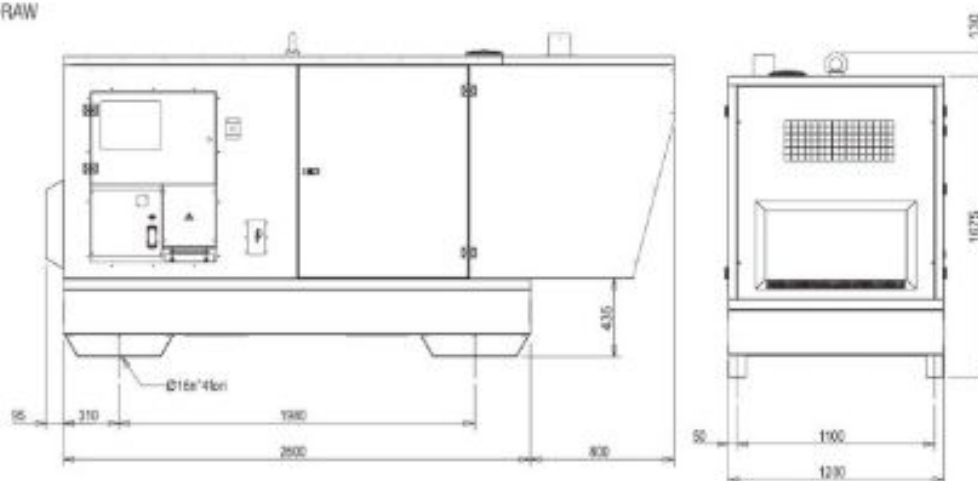


DRY WEIGHT MACHINE:
• 2160 kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW



OPTIONS ON REQUEST

- Automatic transfer switch unit (ATS) PAC 170-M (250A)
- Remote control TCM35
- Earthing kit



VERSIONS ON REQUEST

- Version with manual control panel 6 output sockets EC and SCHUKO (see Control board with output sockets section)
- Manual digital control panel (without sockets)
- Parallel switch board



FACTORY INSTALLATION OPTIONS

- Electronic leakage relay
- Isometer
- PMG - permanent magnet alternator excitation
- Volt adjustable from control panel
- Radio control
- Fuel tank 120 lt.
- Fuel tank 350 lt.
- Fuel tank 840 lt.
- Spark arrestor
- Automatic fuel transfer system
- Engine water heater WH
- 3-way valve fuel system with quick connection for external fuel tank supply
- Engine water heater WH
- Main battery switch
- Plug-in module with double RS232 and RS485 port
- GSM modem with antenna
- GPS / 4G modem with antenna
- Internet / Ethernet plug-in module with Web Server
- Input / Output extension module (No. 16 tot.)

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)
2014/35 / EU (Low Voltage Directive)
2014/30 / EU (EMC Directive)
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2008 - Cert. 0102

WARRANTY

All devices are covered by the manufacturer's warranty.

GENERATING SET GE 5000 KBM

The images are for reference



FEATURES

- Engine shut down for low oil level
- Heavy duty air cleaner with built-in warm-air system for winter operation
- Three fuel filters: fill neck, in-tank and carburetor inlet
- Muffler with heat shield and spark arrestor
- Overload thermal shut off
- Battery charger 12 Vcc with fuse protection
- Protective frame
- Portable
- AVR version **on request**
- Meets EC directives of safety



Air
cooling



petrol



single-phase
power



manual
recoil

POWER RATINGS

* Stand-by single-phase power	4.9 kVA (4.4 kW) / 230V / 21.3A
* PRP single-phase power	4 kVA (3.6 kW) / 230V / 17.4A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.9

* Output powers according to ISO 8528

DEFINITIONS

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

LTP stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: Continue power with variable loads. Maximum power for use with variable loads for a yearly limited numbers of hours.

COP power: COP Power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

3000 RPM ENGINE

4-STROKE, OHV, NATURAL ASPIRATED

Model	KOHLER CH 395 COMMAND PRO
* Stand-By net power	/
* PRP net power	/
* COP net power	/
Cylinders/ Displacement	1 / 277 cm ³ (0.277 lt.)
Bore / Stroke	78 / 58 (mm)
Compression ratio	8,8: 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-By power)	/
100 % of PRP	/
75 % of PRP	/
50 % of PRP	/
COOLING SYSTEM	
Total system cap. - only engine	/
Fan air flow	/
LUBRIFICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	1.3 lt.
Oil consumption at full load	/

* Output powers according to ISO 3046-1

EXHAUST SYSTEM	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	/
Battery charging alternator cap.	/
Cold start	/
Cold start aids	/
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

GE 5000 KBN

WEIGHT - DIMENSIONS AND ACCESSORIES

KBH 0005 39

ALTERNATOR

SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS		
	WITHOUT AVR	WITH AVR
Continous power	4.2 kVA	4.5 kVA
Stand by power	4.6 kVA	5 kVA
Single phase voltage	230 Vac	230 Vac
Frequency	50 Hz	50 Hz
Oil of	/	/
Model AVR	/	HVR-02
Voltage regulation AVR	± 5 %	± 1 %
Sustained short circuit current	3 s	3 s
Transient dip (100% load)	< 10 %	10 %
Recovery time	/	/
Efficiency at 100% load	75% (230V Cos φ 1)	76% (230V Cos φ 1)
Electromagnetic compatibility (EMC)	Class H	Class H
Electromagnetic compatibility (EMC)	Series: W2	Series: W2
EMC immunity	1000V/m	1000V/m
Harmonic distortion - THD	< 8 %	< 5.5 %
Telephone interference - TIF	/	/

GENERAL SPECIFICATION

Tank capacity	7 L
Running time (25% of RPM)	/
Start battery	/
IP protection degree	IP-23

Acoustic power level (gross rated LpA)	69 dB(A) (74 dB(A) @ 7m)
Performance class	C2

CONTROL PANEL

- Engine switch ON - OFF
- Choke
- Thermal circuit breaker for 1700/16A sockets 3 x 10A
- Earth terminal (PE)
- Output terminals for 12Vdc (battery charger)
- Fuse for 12Vdc output 3 x 10A

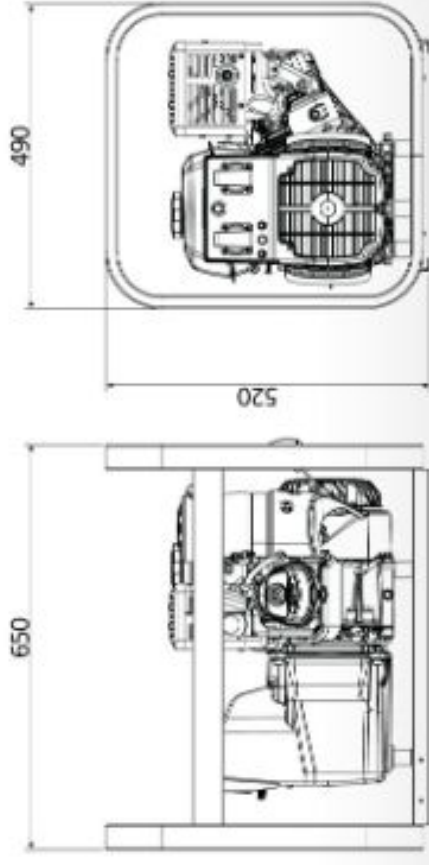
AVAILABLE SOCKET COMBINATIONS

	VERSIONE	
	STANDARD	SOCKET
1620V 16A 2P+1 GLE	•	
1620V 16A 2P+1 5x16A	•	
24230V 16A 2P+1 Socket		•

DRY WEIGHT OF MACHINE:
• 33 kg



DIMENSIONS PICTURE



OPTIONS ON REQUEST

- Exiting kit
- Making trolley CEM

VERSIONS ON REQUEST

- Socket sockets version
- AVR with 100V

FACTORY INSTALLATION OPTIONS

- /

GENERAL INFORMATION

COMPLIANCE CERTIFICATION SETS WITH CE DIRECTIVES AND STANDARDS

- 2006/42/EC (Machinery Directive)
- 2014/53/EU (Low Voltage Directive)
- 2014/53/EU (EMC Directive)
- 2002/94/EC (Directive on the use of substances)
- CE mark (Mechanical safety)



WARRANTY
All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.



GENERATING SET GE 7000 KBM

The images are for reference



FEATURES

- Engine shut down for low oil level
- Heavy duty air cleaner with built-in warm-air system for winter operation
- Three fuel filters: fill neck, in-tank and carburetor inlet
- Muffler with heat shield and spark arrestor
- Circuit breaker
- Protective frame
- Portable
- AVR version **on request**
- Meets EC directives of safety



POWER RATINGS

	WITHOUT AVR	WITH AVR
* Stand-by single-phase power	6.7 kVA (6 kW) 230V/ 29.1A	7.2 kVA (6.5 kW) 230V/ 31.3A
* PRP single-phase power	5.5 kVA (5 kW) 230V/23.9A	6 kVA (5.4 kW) 230V/26 A
Frequency	50 Hz	
cos φ	0.9	

* Output powers according to ISO 8528

DEFINITIONS

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

LTP stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: Continue power with variable loads. Maximum power for use with variable loads for a yearly limited numbers of hours.

COP power: COP Power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

3000 RPM ENGINE

4-STROKE, OHV, NATURAL ASPIRATED

Model	KOHLER CH 440 COMMAND PRO
* Stand-By net power	/
* PRP net power	/
* COP net power	/
Cylinders/ Displacement	1 / 429 cm ³ (0.429 lt.)
Bore / Stroke	89 / 69 (mm)
Compression ratio	8.3: 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-By power)	/
100 % of PRP	/
75 % of PRP	/
50 % of PRP	/
COOLING SYSTEM	
Total system cap. - only engine	/
Fan air flow	/
LUBRIFICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	1.3 lt.
Oil consumption at full load	/

EXHAUST SYSTEM

Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	/
Battery charging alternator cap.	/
Cold start	/
Cold start aids	/
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

* Output powers according to ISO 3046-1

GE 7000 KBM

WEIGHT - DIMENSIONS AND ACCESSORIES

GE 7000 KBM

ALTERNATOR

SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS		
	WITHOUT AVR	WITH AVR
Generator power	6 kVA	7 kVA
Stand-by power	6.6 kVA	7.7 kVA
Single phase voltage	230/240 V	230/240 V
Frequency	50 Hz	50 Hz
Gen. type	Y	Y
Model AVR	—	HR10
Voltage regulation acc.	± 2 %	± 2 %
Sustained short-circuit current	5 In	5 In
Transient dip (100% load)	< 10 %	10 %
Recovery time	—	—
Efficiency at 100% load	77.5 % (230V - Cos φ 1) / 78 % (240V - Cos φ 1)	—
Insulation	Class H	Class H
Overcurrent protection	—	—
Electromagnetic compatibility (EMC)	—	—
Maximum dimension (mm)	—	—
Telephone interference - THF	< 8 %	< 5 %

GENERAL SPECIFICATION

Rated capacity	7 kVA
Running time (75% of rated)	—
Start battery	—
IP protection degree	IP 23

Available power (kW)	(kW) (14 days @ 7hr)
Performance class	IP

CONTROL PANEL

- Single switch ON - OFF
- Circuit breaker
- Thermal circuit breaker for 1700/16A sockets 1 x 16A
- Voltmeter
- Circuit breaker
- Earth terminal (PE)

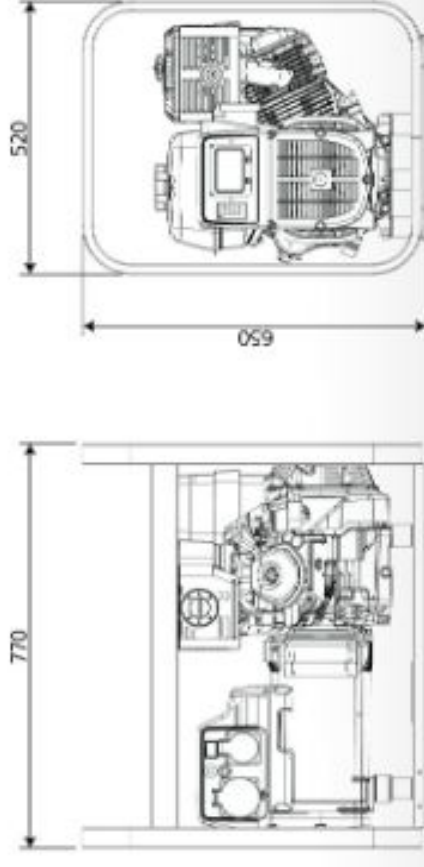
AVAILABLE SOCKET COMBINATIONS

	VERSIONS	
	STANDARD	SCHEMO
16230V 12A 2P + 10E	•	•
16230V 16A 3P + 10E	•	•
16230V 16A 2P + 7SCH40	•	•

DRY WEIGHT OF MACHINE

- 70 kg

DIMENSIONS PICTURE



Generating set pictured may include optional accessories.

OPTIONS ON REQUEST

- Earthing kit
- Moving trolley (Call)

VERSIONS ON REQUEST

- Sockets sockets version
- AVR version

FACTORY INSTALLATION OPTIONS

- ELOS-GFI Ground Fault Interrupter

GENERAL INFORMATION

COMPLY WITH REGULATING FACTS WITHIN THE LIMITS AND STANDARDS

- 2006/42 (EC Machine Directive)
- 2014/26 (EU Low Voltage Directive)
- 2014/26 (EU Low Voltage Directive)
- 2009/14 (EC Directive Acoustic Emission for machines for use outdoors)
- 2009/14 (EC Directive Acoustic Emission for machines for use outdoors)
- 2009/14 (EC Directive Acoustic Emission for machines for use outdoors)



WARRANTY

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