

1500 RPM	Type GP 510DZ

Engine: BF8M 1015 CP **Alternator:** ECO 40-3SN / 4

These are the characteristics of the **BF8M 1015CP**

Extremely compact and powerful.

Very low noise emissions.

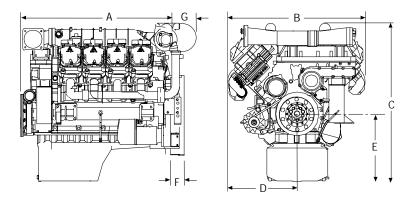
State-of-the-art technology with electronic control.

Reliability, durability and long service intervals.

Our Benifits:

- ➤ The compact 1015 engines save installation space and thus installation costs, rusulting in a favourable power to weight ratio.
- ➤ The silent 1015 engines reduce your noise attenuation requirements and thus cut down your installation costs as well.
- ➤ The advanced combustion system guarantees low fuel consumption as well as long service intervals, thus reducing operating costs.
- ► The 1015 engines meet exhaust emission regulations and are thus geared to the future

Dimensions



Engine type		A	В	C	D	E	F	G
BF8M1015CP	mm	1010	955	1174	478	462	143	198

► Ratingtable: **BF8M1015CP**The Genset Engine 50Hz

Cuasa	Donne
Green	Power
GENERATORS	A Comment of the Comm

Engine type		BF8M 1015 CP		
Speed	min ¹ rpm	1500		
Frequency	Hz	50		
Engine/gensetratings				
Continuous power, ICN (COP)	kW hp	339 535		
Prime power, ICN (PRP)	kW hp	448 601		
Limited- time running power, IFN (LTP)	kW hp	490 657		
Typical generator power output				
Typical generator power output (COP)	kVA	450		
Typical generator power output (PRP)	kVA	508		
Typical generator power output (LTP)	kVA	558		
Spec. fuel consumption PRP (LTP)				
100 % load	g/kWh lb/hp-hr	219 0.360		
75 % load	g/kWh lb/hp-hr	210 0.345		
50 % load	g/kWh lb/hp-hr	208 0.342		

Standard specification

Standard engine: Adapter housing SAE 1 with 50 Hz, SAE 0 with 60 Hz; flywhee with 14" connection.

Cooling system: LT cooling system, charger air cooler, pusher type fan(raised), viscous fluid coupling guard.

Exhaust system: Turbocharger(flywheel end) with counterflange, without exhaust silencer.

Filter: Lube oil filter, air cleaner with restriction indicator mounted, fuel twin filter loose.

Engine electrics: Alternator 24V, 55A; starter motor with 5.4kW; monitoring; coolant temperature, oil pressure and coolent level.

Governor: Electronic speed control.

Scope of Supply:

The engine and the alternator are mounted together forming a rigid monoblock, the shafts are connected by a flexible disc connection. The monoblock is mounted on a steel base frame via silent blocks. The base frame is including a fuel tank. Starting is electric and it includes a battery. The genset monitoring system consist of a control module.

PRP* Kva/KW:

Available electrical power (at a variable load) with a medium of 80% of the indicated maximum power. A 10% overload capability is available LTP** Kva/KW:

Available electrical load (at a variable load) during a maximum of 500 hours per year. No overload capability is available.

CONTROL PANEL

Manual or automatic start control panel

Manual or automatic remote boot controller, selector switch for Off, Man and Auto with the key.

Complete motor protection functions with alarms visualized via LEDs in the front.

The control unit 6 is set via DIP switches in the rear part of the case.

Standard circuit breaker and differential relay.



TECHNICAL DATA

ENGINE CHARACTERISTICS

MAKE	MODEL
DEUTZ	BF8M 1015 CP
GENERAL DATA	
Power PRP (kWm)	434.00
Power LTP (kWm)	475.90
No. cylinders	8
Cylinder capacity (L)	-
Diameter per stroke (mm)	132 x 145
Compression ratio	16.50
Cooling system	LIQUID
Injection	DIRECT
Suction	TURBO
Series regulator	ELECTRONIC
Fly wheel coupling	1 - 14"
Lubrication system	
Oil capacity (L)	45
Oil consumption (%)	0.30
Min. alarm oil pressure (bar)	3
Ventilation system	
Air cooling flow (m3/h)	33120
Combustion air flow (m3/h)	2002
Max. back pressure for fan (mba	r) O
Exhaust system	
Exhaust gas flow (m3/h)	6012
Exhaust back pressure (mbar)	50
Temp. exhaust gases (°C))	600
Electrical system	
VDC (V)	24
Battery (Ah)	2 x 180
Engine start-up (kW)	5.40

ALTERNATOR CHARACTERISTICS

MAKE	MODEL	
MECC-ALTE	ECO 40-3SN / 4	
GENERAL DATA		
Power PRP (kVA)	500	
Power LTP (kVA)	550.00	
Efficiency Alt. 3/4 %	94.80	
Efficiency Alt. 4/4 %	94.60	
No. Poles	4	
Voltage regulator	DER-1	
No. wires	12	
Insulation	Н	
Xd (%)	250.00	
X'd (%)	21.00	
Χ	11.40	
Degree of protection	IP21	



▶ Engine description

Type of cooling: Water cooling

Crankcase: Crnakcase of grey cast iron with wet liner

Crankcase

breather: Closed-circuit system, vacuum-controlled

Cylinder head: Individual cylinder heads of grey cast iron of crossflow design

Valve arrangement/

Timing: Overhead valves in cylinder head, four valve technology, actuated via tappets, pushrods and

rocker arms, driven by gears and central camshaft

Turbocharging: V6 with one turbocharger and with charge air cooler

V8 with two turbochargers and charge-air cooler

Piston: Three-ring pistons: two compression rings and one oil scraper ring
Piston cooling: Oil-cooled with spray nozzles (CP-engines: channel-cooled piston)

Crankshaft: Drop-forged steel crankshaft with bolted counterweights.

V6 with 30° offset crankpins (split-pin)

Main and big-end

bearings: Tri-metal plain bearings

Connecting rod: Drop-forged steel rod with trapezoidal piston pin support

Camshaft: Steel camshaft

Lubrication system: Forced-feed circulation lubrication with gear pumps

Lube oil cooler: Engine integrated

Lube oil filter: Paper type microfilter as replaceable cartridge, full flow filter

Injection pump/

Governor: In-line injection pump with mechanical centrifugal governor or electr. engine governor EMR-2

optional or electr. PLD-system (DEUTZ MV)

Fuel lift pump: Mechanical reciprocating pump

Injection nozzle: 8-hole nozzle, central arrangement

Fuel filter: Replaceable cartridge

Alternator: Three-phase alternator, 28 V, 55 A

Starter motor: 24V; 6.6 kW

Heating system: Optional connection for cab heating to engine cooling circuit

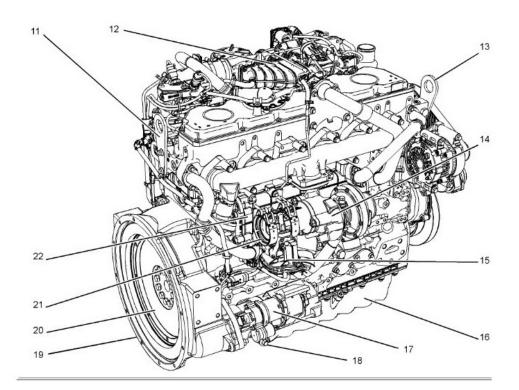
Options: Intake/exhaust manifold connections, air compressors, hydraulic pumps, flywheels, flywheel

housings SAE, electrical equipment, oil pans, cold-start facilities, several fan installation possibilities, air cleaners, engine mounting feet, engine brake, starters, alternators.



Identification of engine parts

Front side BF8M 1015CP



- 11 Read lifting eye
- 12 NOx reduction system (NRS)
- 13 Front lifting eye
- 14 Turbocharger
- 15 Back pressure valve
- 16 Engine oil pan (Sump)
- 17 Starting moto
- 18 Engine oil drain plug
- 19 Flywheel housing
- 20 Flywheel
- 21 Exhaust outlet
- 22 Exhaust gas cooler

Helsingborgsvägen Varalöv 262 96 Ängelholm, Sweden Tel: +46 431-222 40

E-mail: info@greenpower.se web:www.greenpower.se