

ENSD312.5-1 (BF6M1015C-G1)

DEUTZ Generating set

Technical Data Sheet



★ Pictures are for your reference:

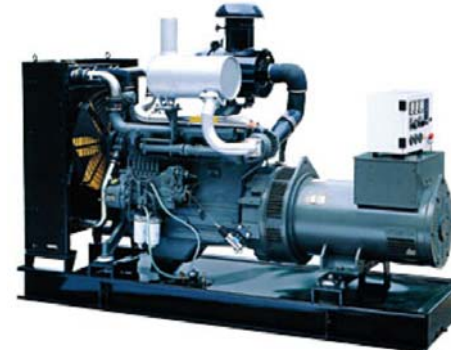

Features, Specifications and accessories are subject to changes without prior notice.



Cooperator:



Standard Specification

<p>General features:</p> <ul style="list-style-type: none"> • Composed of DEUTZ diesel engine and Stamford or ENMC alternator • 24V DC start motor and storage battery • Brushless, Self-excited, IP23, insulation class H alternator • Engine cooling system: water-cooled ● Key start panel control system as standard, digital auto-start panel is optional • 8-hour operation base tank • Optional open type or silent type ● All generator sets are gone through rigorous testing before being released to the market place, including 50% load, 75load, 100% load , 110% load and all protection function (overspeed stop, high water temperature, low oil pressure, battery charging fail, emergency stop) 	
	

3-PH, 50Hz@1500RPM, 400/230V (Also Can Be Made According To Customers' Special Requirements)

Genset Model	Genset Specification					Engine Specification				Alternator Model
	KVA		Cons.100% (L/H)	dB(A)@7m	Tank (L)	Model	Cyl.	G ov	Asp.	
	ESP	PRP								
ENSD312.5B	344	312.5	75	N/A	900	BF6M1015C-G 1	4	M	TC	HCI 444ES
ENSD312.5S-1 B	344	312.5	75	70	910	BF6M1015C-G 1	4	M	TC	HCI 444ES
ENSD312.5-1B	344	312.5	75	N/A	900	BF6M1015C-G 1	4	M	TC	ENI 444ES
ENSD312.5S-1B	344	312.5	75	70	910	BF6M1015C-G 1	4	M	TC	ENI 444ES

- 1) Available in various voltages
- 2) To show ENEC Generating Sets Model
For example: ENM38-1A, it is the open generation set.
ENM38S-1A, it is the silent generating set.
- 3) ESP=Standby power standby duty, operation under variable load, without overload.
PRP=Prime power continuous duty operation, under variable load, 10% overload permissible 1/12hr.
- 4) E=Electronic speed governor;
M=Mechanical speed governor
- 5) Asp=Aspiration;
NA=Naturally Asp;
TC=Turbocharged;
TW=Turbocharged after cooled;
TCA= Turbocharged air-air after cooled

Page 2/5



FUZHOU EN E&M CO.,LTD

Address:NO. 13 , ChangTing Industrial Zone, Fuan City, Fujian Province, China
Tel: 86-591-87880061 Fax: +86-591-87549089
Website: <http://www.e-generator.com> E-mail:service@e-generator.com

product development,we reserve the right to change specification without notice

Engine Specification

DEUTZ Diesel Engine Technical Data

Engine Model	BF6M1015C-G1
Number of Cylinders	4
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged
Bore×Stroke (mm×mm)	105x 120
Displacement (Liter)	4
Compression Ratio	17:1
Prime Power/Speed (kW/rpm)	60/1500
Standby Power/Speed (kW/rpm)	66/1500
Speed Governor	Mechanical
Cooling System	water-cooled
Fuel Consumption at 100% Load (g/kWh)	288 (at 1500RPM)
Starter Motor	24V
Alternator	24V

Alternator Specification

Stamford Alternator (Standard)

ENE Alternator (Option) Technical Data

Alternator Model	HCI 444ES(Stamford) EN444E(ENEC) Please Refer To The“ Genset Main Technical Data”
Phase/Connect	3-phase 4-wire ,Y type connection
Excitation Model	Self-excite,automatic voltage regulation,Insulation:H,Bruhless,Enclosure:IP21—IP23
Power Factor	0.8
The regulating rate of instantaneous voltage:	-15%~ +20%
The time of steady voltage:	≤1.5sec
The waving rate of voltage:	≤1.0%
The regulating rate of steady frequency:	≤5%
regulating rate of instantaneous frequency:	≤±10%
The time of steady frequency:	3sec
The waving rate of frequency:	≤1%



Cooperator:



Reliable Performance

Voltage regulation

Voltage regulation maintained within $\pm 0.5\%$ as follow:

- Power factor Between 0.8~1.0 lag
- From no load to full load, any steady load
- Speed droop variation under 4.5%

Frequency/Speed undulation

- Change load from 0-100%, Frequency/Speed Droop Ratio within 5% .
- Load from 25-100%, any steady load Frequency/Speed undulation within 0.25%

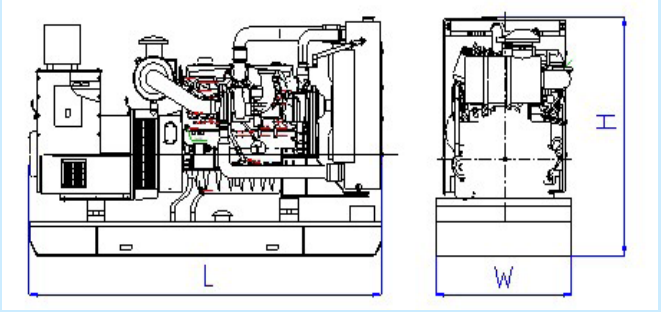
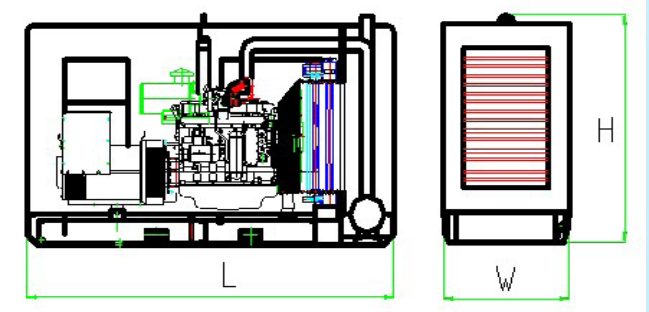
Effect factor of telecom

- TIF(MA MG1-22) better than 50
- THF(BS EN60034) better than 2%

Criterion

- ISO8528, GB/T2820
- EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ISO9001:2000 Quality Control System

Dimension and Weight

	<p>Open Type</p> <p>Overall size (L*W*H) 2900×1600×2100 Weight: 2300kg</p>
	<p>Silent Type</p> <p>Overall size (L*W*H) 3100×1700×2200 Weight: 2550kg</p>

Page 4/5



FUZHOU EN E&M CO.,LTD

Address: NO. 13, ChangTing Industrial Zone, Fuan City, Fujian Province, China
Tel: 86-591-87880061 Fax: +86-591-87549089
Website: <http://www.e-generator.com> E-mail: service@e-generator.com

product development, we reserve the right to change specification without notice

Control System

1. Standard: EN170HC Key Start

Providing the standard functions as follows:
(Also can be made according to the customers' special requirements)

- * Start/Stop controller
- * Ampere meter
- * Voltmeter and selector switch
- * Frequency meter/ Water temperature gauge/ Oil pressure gauge/ Hour counter/ Battery voltage meter
- * Emergency stop pushbutton
- * Alarm System: Over speed、High Engine Temperature Low Oil Pressure、Charge Fail
- * Protection System: Over speed、High Engine Temperature、Low Oil Pressure、Emergency Stop. And the other protection function pre-setting

2. Option: Smartgen HGM6110 Digital Auto Start

3. Option: Smartgen HGM6120 Digital Auto Start (Option assembled with the ATS)

4. Option: Deep Sea DSE5210 Digital Auto Start

5. Option: Deep Sea DSE5220 Digital Auto Start (Option assembled with the ATS)

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power. (AMF)

Functions:

- * Automatic Start/Stop
- * 3 start attempts failure and Automatic Crank Disconnect
- * Parameters display (V/A/Hz/Hour)
- * Engine monitoring and protection
- * Charge alternator exciting and Charge alternator fail alarm
- * Running hour counting
- * Settings can be adjustable via key buttons on front panel

6. option: BGC-L (Main used in Multiple gen-sets, load sharing)



(1)



(2)



(3)



(4)



(5)



(6)



Cooperator:

