



BC DIESEL GENERATORS

TECHNICAL DATA

DIESEL GENERATING SET

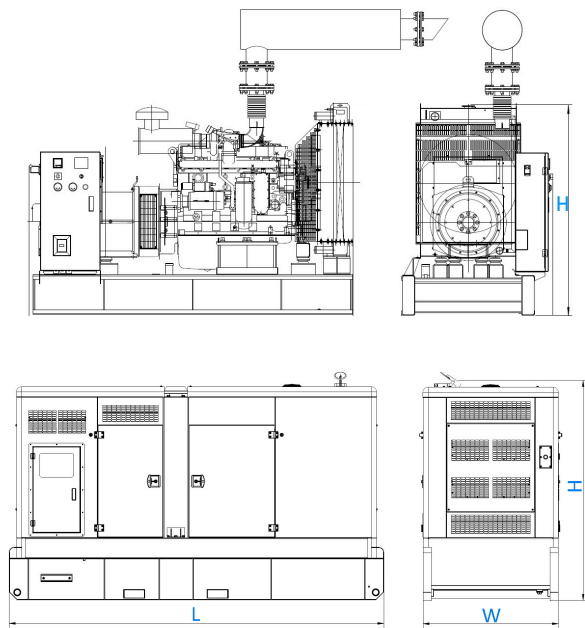
60HZ

DG12PS

Features

Photos are for reference only

- Compact structure & high-strength chassis
- Easy for operation and maintenance
- Good performance anti-vibration system
- Compliance with international electrical safety standards
- 12hours double-wall base tank
- High-performance free-maintenance batteries with isolation switch
- 50°C radiator
- Top lifting point, Fork lift holes, easy for transportation.
- Industrial type muffler
- Noise reduction structure,Low overall noise
- Convenient power output interface and ATS Interface
- IP56 (control system)
- The customized design
- Structure options:



Dimension and Weight	
Generating set model	DG12PS
Length(L) (mm)	1950
Width(W) (mm)	893
Height(H) (mm)	1260
Dry weight (k g)	870
Tank capacity (L)	90

Genset Technical Data	
Output frequency	60 Hz
Rated speed	1800 rpm
Prime power	12KW
Standby power	13KW
Rated voltage	240V/120V
Phase	1(2P3W)
Engine model	403D-15G
Alternator model	PI 044F
Fuel consumption of 100% load	3.7 Litres/h
Fuel consumption of 75% load	2.8 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

Engine Specifications	
Engine model	403D-15G
Engine manufacturer	PERKINS
Number of cylinders	3
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	naturally
Bore x Stroke	84 x 90 mm
Displacement	1.496 Liter
Compression Ratio	22.5 : 1
Prime power/speed	14.4 kW / 1800 rpm
Standby power/speed	15.9kW / 1800 rpm
Speed governor	Mech
Cooling system	Forced Water Cooling Cycle
Steady speed droop	≤1%
Total lubrication system capacity	6.0 Liter
Coolant capacity (with radiator)	6.0 Liter
Fuel consumption at 100% load	247 g/kW.h (at 1800 rpm)
Starter motor	DC 12 V / 2 kW
Alternator	DC 12 V / 65 A

Alternator Specifications	
Alternator model	PI 044F(4Lead)
Rated output prime power	12.5 KW
Efficiency	77.3 %
Rated speed	1800 rpm
Rated frequency	60 Hz
Phase	1
Rated voltage	240 V
Exciter type	Self excitation, Brushless
Power factor	1.0
Voltage adjust range	≥5%
Voltage regulation	≤±1%
Insulation grade	H
Protection grade	IP23
Xd DIR. AXIS SYNCHRONOUS	2.25
X'd DIR. AXIS TRANSIENT	0.23
X''d DIR. AXIS SUBTRANSIENT	0.14
Xq QUAD. AXIS REACTANCE	1.07
X''q QUAD. AXIS SUBTRANSIENT	0.23

Control System

DSE-7320

DSE-7320 is an advanced control module based on micro-processor, It is an Auto Mains (Utility) Failure Control Module(AMF), have been designed to start and stop generating sets that include electronic And non-electronic engines. Include the additional capability of being able to monitor a mains (utility) supply. when main is not available, It can automatically start the engine and close generating sets breaker automatically, Accurately measure various operational parameters and display all values and alarms information on the LCD. In additional, it can automatically open breaker, and shutdown the engine after the main supply recovers.

Main Features

- AMF and ATS and communication and expansion function
- Designed to work with electronic or non-electronic or gas engine simultaneously. (support many kinds of engines ECU).
- Manual, Automatic, Test and remote control mode selectable.
- Monitoring and measuring operational parameters of the mains supply and genset.
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections and multiple parameters display.
- Includes 12 inputs and eight outputs. 8 inputs are configurable and 4 outputs are configurable.
- Can be programmed using the front panel or by using the PC software.
- Support twelve languages. The language was edited by customer.
- Graded protection: pre-alarm, shutdown and electrical trip, flexible setting.
- The module can be pre-set for four operating modes and protecting parameters.
- Add DSE860 or DSE865 module, internet network monitoring can be realized.
- The firmware can be updated automatically, so customer can have the latest version.



The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Generator KVA, KW, PF
- Engine run-time Hours
- Engine oil pressure
- Engine coolant temperature
- Real time clock for time and date, overall runtime

Optional

Engine

- Water Jacket Preheater
- Fuel-water separator
- Oil pump
- Oil preheater
- Battery preheater

Alternator

- PMG excitation
- Space heater
- Winding Temperature Measuring

Generator Set

- Tools with the machine
- Coolant (-30°C)

Control System

- AMF function
- ATS control cabinet
- Double-frequency and double voltage
- Single phase
- ABB MCCB

Fuel System

- 12 / 24 hour base tank (single wall)
- Dual wall base fuel tank
- Outside fuel tank
- Automatic fuel feeding
- Fuel level indicate

Canopy

- Hired type
- Economy Oil heater
- Trailer

BC DIESEL GENERATORS

www.bcdieselgenerators.com
denis@bcdieselgenerators.com
250.554.6661