

KDE-412D Diesel Generator Set

Powered by 

General Features

- Engine (DOOSAN P158LE-1), Radiator 40°C max, belt driven fans, with safety guard
- 24V charge alternator
- Alternator (Stamford, Leroy Somer & MeccAlte for option), single bearing alternator IP23, insulation class H/H
- Skid and vibration isolators
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, industrial muffler

PHOTO FOR REFERENCE ONLY



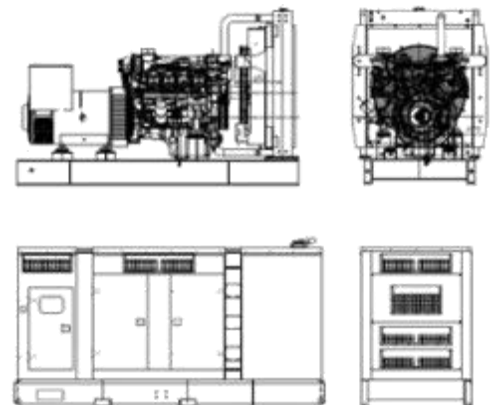
Technical Data

Output Frequency	50 Hz
Rated Speed	1500RPM
Prime Power	375KVA/300KW
Standby Power	412KVA/330KW
Rated Voltage	400/230V
Phase	3
Power Factor	0.8
Fuel Consumption 100% Load	78.7L/Hr
Fuel Consumption 75% Load	58.4L/Hr
Fuel Consumption 50% Load	40.0L/Hr
Operation Altitude	≤ 1000m
Ambient Temperature	≤ 40 °C



Dimension and Weight

Genset Type	Open Frame	Soundproof
Length(L) (mm)	3000	4250
Width(W) (mm)	1450	1480
Height(H) (mm)	1950	2400
Gross Weight (kg)	3050	3550



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Engine Specification

Manufacturer / Model:	DOOSAN P158LE-1, 4-cycle
Air Intake System:	Turbo, Air/Air cooling
Fuel System:	BOSCH P type fuel pump
Cylinder Arrangement:	8 in V
Displacement:	14.618L
Bore and Stroke:	128*142 (mm)
Compression Ratio:	15:1
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	362KW
Governor Type:	Electronic
Exhaust Gas Flow:	78.3m ³ /min
Exhaust Temperature:	606°C
Max Back Pressure:	6kPa
Max Intake Restriction:	6.35kPa
Intake Air Flow:	25.3m ³ /min
Cooling Fan Air Flow:	854m ³ /min
Total Oil Capacity:	30L
Oil Consumption:	≤4g/kwh
Total Coolant Capacity:	88.5L
Max Water Temperature:	103°C

Alternator Specification

Manufacturer / Model:	STAMFORD S4L1D-F41
Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Protection Grade:	IP23
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Interference Factor (TIF):	< 50
THF:	< 2%
Voltage Regulation, Steady State:	≤± 1%
Alternator Capacity:	415KVA
Alternator Efficiencies:	94.5%
Air Cooling Flow:	0.76m ³ /s

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Control System

Standard Deepsea DSE6020 Auto Mains Failure Control Panel

- Manual or Auto Start Module for single genset applications. Designed to work with electronic and non-electronic engines, providing advanced engine monitoring and protection features.
- Includes a back-lit LCD display which shows the status of the engine at all times. Monitors engine speed, frequency, voltage and run hours and also displays the warning and shutdown status.
- Includes extensive outputs and inputs making this product ideal for a wide variety of applications. It can either be programmed using the front panel or by using DSEPC software.



Optional Deepsea DSE7320 Auto Mains Failure Control Panel

- Auto Mains (Utility) Failure Control Module suitable for a wide variety of single genset applications.
- Displays warnings, shutdown and engine status info on the back-lit LCD screen, illuminated LEDs, remote PC. Monitors the mains (utility) supply. Includes USB, RS232 and RS485 ports for system expansion.
- Compatible with electronic and non-electronic engines and offers flexible inputs, outputs and engine protections to meet extensive industry requirements.
- Includes enhanced event and performance monitoring, remote communication to reduce engine wear. It can either be programmed using the front panel or by using DSEPC software.



Optional Deepsea DSE8610 Auto Paralleling Control Panel

- Synchronizing Auto Start Control Module for multi-genset loadshare system, designed to synchronize up to 32 gensets including electronic and non-electronic engines.
- Monitors the genset and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
- System alarms are annunciated on the LCD screen, illuminated LED and audible sounder.
- Records 250 events log for maintenance. Extensive monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.
- Using DSE PC Software allows alteration of the operational sequences, timers, alarms with all communication ports active.



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Optional

Engine

- Water Jacket Preheater
- Water Separator
- Oil Pump
- Oil Preheater
- Battery Charger

Fuel System

- Daily Fuel Tank
- External Fuel Tank
- Auto Fuel Filling System
- Fuel Level Sensor

Control System

- Auto Remote Control Panel
- AMF Function Control Panel
- Auto Paralleling Control Panel
- Auto Transfer Switch (ATS)
- ABB breaker

Alternator

- Anti Condensation Heater
- Permanent Magnet Generator
- Winding Temp Sensor

Enclosure

- Rainproof Type
- Soundproof Rental Type
- Mobile Type

Available Voltages

- 440/254V
- 415/240V
- 380/220V

Reference Standards

Generator Set: ISO 8528, CE

Engine: ISO 3046, BS 5514, DIN 6271

Alternator: BS EN 60034, IEC34, BS5000, NEMA MG1-32, VDE 0530, CSA C22.2-100, AS1359

Warranty

KNOX Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: A. 15 months, counted on the day KNOX sold to the first buyer; B. One year after installation; C. 1000 running hours (accumulated); subject to the earlier one.

Service and spare parts are available from KNOX Power or distributors in your location.