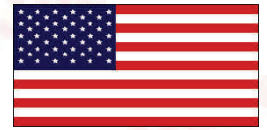




GeneratorJoe®



Made in the USA!



400 kw (235 kW Prime), Shown with optional equipment

Major Features

- Single source responsibility for the generator set and accessories.
- Prototype and production tested, HALT tested.
- One year limited prime power warranty on generator sets and accessories factory installed.
- Unit conforms to UL, CE, CSA, NEMA, EGSA, ANSI and other standards.
- **EPA Certified Prime Power Mobile.**
- Heavy duty 4 cycle industrial engine for reliability and fuel efficiency.
- Brushless rotating field alternator with class H insulation and PMG system.
- Heavy duty steel base with integral vibration isolators.
- Proudly Made in the USA by Americans !
- Best Features & most options in the Industry,

Oil Field Prime Power Series

Model: 250 OFPP3

Natural Gas & Propane

Ratings NG

Single and/or Three Phase Available

	Natural Gas Fuel	60 Hz	50 Hz
Standby:	kW	250.0	208.3
	kVA	313.0	260.8
Prime:	kW	235.0	195.7

Alternator	Voltage L-N / L-L	Phase	Hertz	Natural Gas 105° Rise Prime Rating	
				kW / kVA	Amps
HCI434D311	277/480	3	60	235/294	354
	139/240	3	60	235/294	707
	127/220	3	60	235/294	772
	240/416	3	60	235/294	408
	120/208	3	60	235/294	816
	120/240	3	60	235/294	707
	220/380	3	60	235/294	447

We Design and Build generators to your specifications.

Any size, type, fuel voltage & frequency.

Stationary, mobile, oil, gas, fleet & military models

Delivery in the USA and Worldwide

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

STANDBY RATINGS: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. For limited running time and base load ratings consult the factory.

NOTICE: The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. All sales subject to the terms and conditions shown on www.generatorjoe.net, Policies.

GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) elevation above 1000m (3279 ft.)
Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).

Engine Application Data

Basic Technical Data	
Manufacturer	Doosan
Model	D146L
Number of cylinders	8
Cylinder arrangement	Vertical in-line
Cycle	4
Induction system	Turbocharged, Aftercooled
Compression ratio	10.5:1
Bore	5.04 in (128 mm)
Stroke	5.59 in (142 mm)
Cubic capacity	892 cu in (14.6 L)
Piston speed	1677 ft/min (511 m/min)
Main bearings: qty and type	10, Precision Half-Shell
Governor type	Electronic
Rated rpm	1800
Max power at rated rpm	300 hp (402 kW)
Engine power at Standby rating	N/A
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	± 0.5%
Frequency	Fixed
Air cleaner type	Dry

Exhaust System	
Exhaust manifold type	Wet
Exhaust flow at rated kW	1895 cfm (1131 kg/hr)
Exhaust temperature at rated kW	1382 °F (750 °C)
Maximum allowable back pressure	3.0 in (10.2 kPa)
Exhaust outlet size at engine hookup	N/A

Cooling System	
Ambient temperature	122 °F (50 °C)
Engine jacket water capacity	9.5 gal (43.2 L)
Radiator system capacity, including engine	50 gal (227.3 L)
Engine jacket water flow	180 gpm (680 Lpm)
Heat rejected to cooling water at rated	16189 Btu/min (284 kW)
Max restriction of cooling air, intake and discharge side of radiator	0.5 H ₂ O (0.125 kPa)

Lubrication System	
Type	Full Pressure
Oil pan capacity	42.3 qt (40 L)
Oil pan capacity with filter	49.7 qt (47.1 L)
Oil filter: qty and type	2, Cartridge

Electrical System	
Ignition system	N/A
Battery charging alternator:	
Ground	negative
Volts	24
Ampere rating	45
Starter motor rated voltage	24
Battery, recommended cold cranking amps (CCA):	
Qty rating for -18 °C (0 °F)	Two, 1000
Battery voltage	12

Operation Requirements	
Radiator-cooled cooling air, m ³ /min (scfm) ‡	22500 scfm (638 m ³ /min)
Combustion air	532 cfm (1064 m ³ /min)
Heat rejected to ambient air:	
Engine	3765 Btu/min (66 kW)
Alternator	1309 Btu/min (23 kW)

Fuel System	
Fuel Type	Natural Gas

Fuel Consumption	
<u>Natural Gas</u>	
100% Load	2782 cfh (78.8 m ³ /hr)
75% Load	2168 cfh (61.4 m ³ /hr)
50% Load	1521 cfh (43.1 m ³ /hr)
25% Load	928 cfh (26.3 m ³ /hr)



GeneratorJoe®

GeneratorJoe®

4723 Muirfield Court
 Santa Rosa, CA 95405
 Phone: 707 542-2224
 Fax: 707 542-2227

Email: sales@generatorjoe.net
 Web: www.generatorjoe.net

Generator Controller Options

Digital Control Panel



- Integrated engine-genset control, protection, and metering
- Microprocessor allows for exact measurement, setpoint adjustment, and timing functions
- Front panel 3 position controls and indicators enable quick and simple operation
- Emergency stop push button and an Alarm Horn with silence button
- A wide temperature-range liquid crystal display (LCD) with backlighting
- SAE J1939 Engine ECU communications
- Multilingual capability
- Remote RS-485 communications for Optional RDP-110 Remote Annunciator
- 4 programmable contact inputs and 10 contact outputs (2 A/c rated)
- Modbus Communications with RS-485, Battery Backup for Real Time Clock, UL recognized, CSA certified, CE approved, HALT (Highly Accelerated Life Tests) tested, IP 54 Front Panel rating with integrated gasket, and NFPA 110 Level 1 Compatible.

Analog Controller



- Monitor AC voltage, AC frequency, percent of load and, run time/hour meter
- Overspeed, overcrank, low oil pressure, and high coolant temperature indicators
- Green LED indication of engine running
- Control switch for local and remote starting with 3 position run/off/remote switch
- Emergency by-pass key switch gauge
- Mechanical oil pressure gauge
- Coolant temperature gauge

AC Alternator Specifications

Manufacturer	Stamford
Type	Ext. Voltage Regulated, Brushless
Gen Frame	HCI534C
Insulation	NEMA
Material	Class H
Temperature Rise	105 °C, Prime
Hertz	60
Phase	3
RPM	1800
Exciter	Rotating
# Leads	12 Reconnectable
PF	0.8
Ambient	40°C
Coupling Single Bearing	Flexible
Amortisseur Windings	Full
Voltage Regulation	1 Phase Sensing 1%
no-load and full-load	Optional 3 Phase Sensing 1/2%

- NEMA MG1, IEEE, AND ANSI standards compliance for temperature and motor starting.
- Sustained short-circuit current of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and drip-proof construction.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Linkboards
- Optimized Electrical Design
- Enhanced Ventilation
- Fully Guarded
- Heavy Duty Bearings

Stamford industrial generators meet the requirements of BS EN 60034 and the relevant section of other international standards such as 55000, VDE 0530, NEMA MG1-32, 1EC34, CSA C22.2-100, A51359.

AUTOMATIC VOLTAGE REGULATORS & PMG

This sophisticated AVR is incorporated into the Stamford Permanent Magnet Generator (PMG) control system.

The PMG provides power via the AVR to the main exciter, giving a source of constant excitation power independent of generator output. The main exciter output is then fed to the main rotor, through a full wave bridge, protected by a surge suppressor. The AVR has in-built protection against sustained over-excitation, caused by internal or external faults. This de-excites the machine after a minimum of 5 seconds. An engine relief load acceptance feature can enable full load to be applied to the generator in a single step. If three-phase sensing is required with the PMG system the MX321 AVR must be used. We recommend three-phase sensing for applications with greatly unbalanced or highly non-linear loads.

WINDINGS & ELECTRICAL PERFORMANCE

All generator stators are wound to 2/3 pitch. This eliminates triplen (3rd, 9th, 15th ...) harmonics on the voltage waveform and is found to be the optimum design for trouble-free supply of non-linear loads. The 2/3 pitch design avoids excessive neutral currents sometimes seen with higher winding pitches, when in parallel with the mains. A frilly connected damper winding reduces oscillations during paralleling. This winding, with the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.

SHAFT - The generator rotor is dynamically balanced to better than B56861: Part 1 Grade 2.5 for minimum vibration in operation.

INSULATION/IMPREGNATION - The insulation system is class H.

All wound components are impregnated with materials and processes designed specifically to provide the high build required for static windings and the high mechanical strength required for rotating components.

Standard Features and Optional Accessories

Standard Features

- **Factory Fluid Fill, (oil and coolant)**
- **DGC2020 Control Panel, Heated**
- **Control Panel Door with Window**
- **Electronic Isochronous Governor**
- **Fuel Inlets with Ball Valves**
- **Oil/Coolant Drain Valves w/Extensions**
- **High Ambient Unit Mounted Radiator**
- **Stainless Flex Exhaust Connectors Mounted to Catalytic Convertors**
- **Stainless Steel Exterior Hardware/Locks**
- **Integrated Vibration Isolators**
- **Batteries**
- **Battery Rack & Hold Downs**
- **Battery Cables**
- **Battery Disconnect Switch**
- **Battery Charging Alternator**
- **15 Gallon Reserve Oil Tank w/bypass**

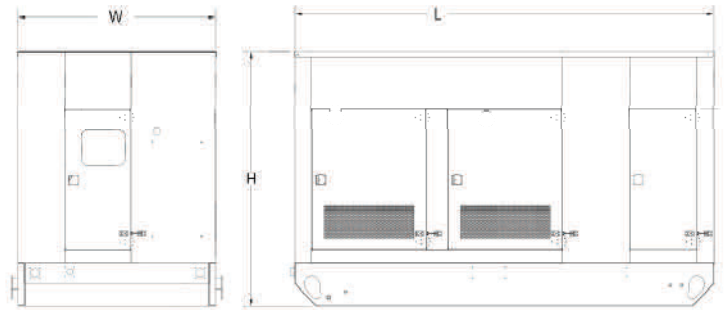
Optional Accessories

- Oil Field Full 110% Containment Skid with Drag Teardrops, Lifting Eyes
- Dual Fuel with Auto Changeover System
- Flare Gas Scrubber with Tank, Auto-Clean & Heater in Separate Compartment
- Line Circuit or Motorized Breakers
- Y-YY-ZZ Multi-Voltage Selector Switch
- Weather/Sound Enclosures, 12 ga. Steel
- Interior Cabinet Lights
- 50° Ambient Radiator
- Dual Oil Filters & Luberfiner System
- Analog or Digital Control Panels, Multiple Options with & without communications, generator protection and more.
- Engine RPM Control Module
- Generator Paralleling, Load Sharing
- Telemetry Control, Monitoring and PM System, Ethernet Hub/Switch
- Annunciator Panels
- E Stop Switches
- Block, Battery & Oil Pan Heaters
- Battery Chargers
- Nema 3R Exterior Disconnect Box
- 20 Amp 120 VAC & GFI Receptacles
- 30 Amp 120/240 VAC & GFI Receptacles
- Cam-Lok Connectors
- Extended Lights (exterior flood lights)
- Oil & Gas Field Dual Generator Skid
- Flare Gas Recovery & NGL Processor Systems that operate at - 40° F & lower
- Winterization Kits, Shelters & Field Mats
- Heavy Duty Transport Trailer

Weights and Dimensions

OVERALL SIZE, L x W x H: 150 in. x 84 in. x 96 in.
WEIGHT (DRY): 10,703 lbs.

Note: Dim and weights reflect standard unit with no options



Note: This drawing is provided for reference only and should not be used for planning or installation. Contact GeneratorJoe for more detailed information.



GeneratorJoe®

4723 Muirfield Court
Santa Rosa, CA 95405

Phone: 707 542-2224

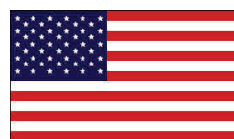
Fax: 707 542-2227

Email: sales@generatorjoe.net

Web: www.generatorjoe.net

A small business owned by service a connected disabled veteran.

Cage 1U5V7 - TIN/EIN #943026355 - Duns #054590203



Made in the USA!



Model: 250 OFPP3

© Copyright, GeneratorJoe Inc. All Rights Reserved