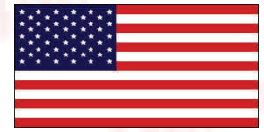




GeneratorJoe®



Made in the USA!



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: 400 OFPP3

Natural Gas & Propane

Ratings NG

Single and/or Three Phase Available

	Natural Gas Fuel	60 Hz	50 Hz
Standby:	kW	400.0	333.3
	kVA	500.0	416.7
Prime:	kW	360.0	299.8
	kVA	450.0	374.8

Alternator	Voltage L-N / L-L	Phase	Hertz	Natural Gas 105° Rise Prime Rating	
				kW / kVA	Amps
HCI534C311	277/480	3	60	360/450	542
	139/240	3	60	360/450	1084
	127/220	3	60	360/450	1182
	240/416	3	60	360/450	625
	120/208	3	60	360/450	1251
	120/240	3	60	360/450	1084
	220/380	3	60	360/450	685

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	D219TIC
Number of cylinders	12
Cylinder arrangement	Vertical in-line
Cycle	4
Induction system	Turbocharged, Charge Air-Cooled
Compression ratio	10.5:1
Bore	5.04 in (128 mm)
Stroke	5.59 in (142 mm)
Cubic capacity	1338 cu in (21.9 L)
Piston speed	1677 ft/min (511 m/min)
Main bearings: qty and type	14, Precision Half-Shell
Governor type	Electronic
Rated rpm	1800
Max power at rated rpm	530 hp (395 kW)
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	2995 cfm (1787 kg/hr)
Exhaust temperature at rated kW	1350 °F (732 °C)
Maximum allowable back pressure	3.0 in (10.2 kPa)

Cooling System

Ambient temperature	122 °F (50 °C)
Engine jacket water capacity	14 gal (53 L)
Radiator system capacity, including engine	64 gal (242 L)
Engine jacket water flow	174 gpm (660 Lpm)
Heat rejected to cooling water at rated	25760 Btu/min (453 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	spark
Battery charging alternator	included
Ground	negative
Volts	24
Ampere rating	45
Starter motor rated voltage	24
Battery, recommended cold cranking amps (CCA):	2, 1100
Qty rating for -18 °C (0 °F)	
Battery voltage	12

Operation Requirements

Radiator-cooled cooling air, m ³ /min (scfm) ‡	29000 scfm (821 m ³ /min)
Combustion air	841 cfm (1682 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 / Propane (derates)
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Fuel Consumption

<u>Natural Gas</u>	
100% Load	4231 cfh (119.8 m ³ /hr)
75% Load	3298 cfh (93.4 m ³ /hr)
50% Load	2317 cfh (65.6 m ³ /hr)
25% Load	1413 cfh (40.0 m ³ /hr)



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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	<ul style="list-style-type: none">• 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 dripproof construction.• Superior voltage waveform from a two-thirds pitch stator and skewed rotor.• Linkboards• Optimized Electrical Design• Enhanced Ventilation• Fully Guarded• Heavy Duty Bearings
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 no-load and full-load	1 Phase Sensing 1% Optional 3 Phase Sensing 1/2%	

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**

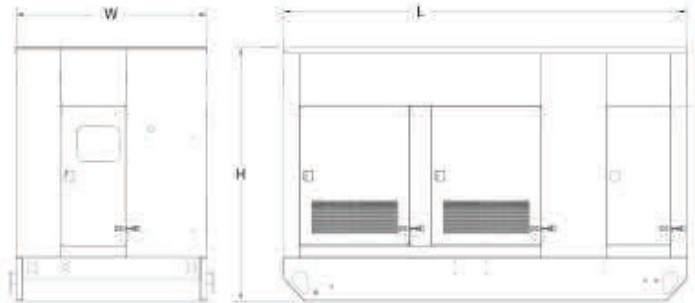
Optional Accessories

- 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: 186 in. x 84 in. x 109 in.
WEIGHT (DRY): 14,100 lbs.

Note: Dimensions 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.



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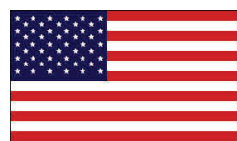
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Model: 400 OFPP3

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