JOHN DEERE

PowerTech™ 4045T Diesel Engine
for Generator Set Applications

RATINGS

Prime Power at 1800 rpm (60 Hz)	102 hp (76 kW)
Standby Power at 1800 rpm (60 Hz)	113 hp (84 kW)

PRIME POWER is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO 3046 and SAE J1995.

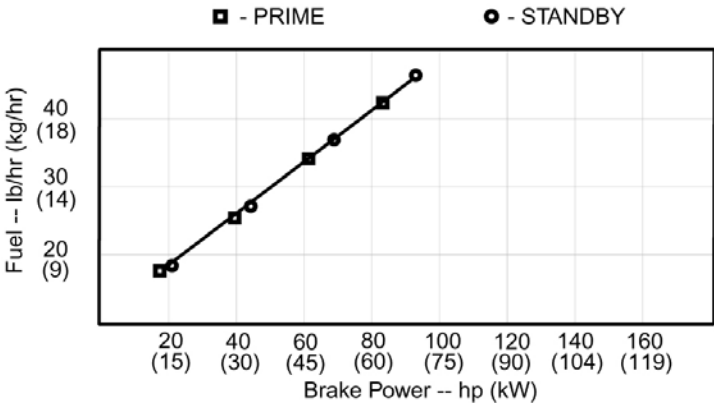
STANDBY POWER is the nominal engine power available at varying load factors for up to 500 hours per year. This rating conforms to ISO 3046 and SAE J1995. The calculated generator set rating range for standby applications is based on minimum engine power (nominal -5%) to provide 100% meet-or-exceed performance for assembled standby generator sets.

TIER 2 EMISSION CERTIFICATIONS: CARB and EPA

PERFORMANCE DATA

RPM (Hz)	Generator Efficiency %	Fan Power		Power Factor	Calculated Gen Set output			
					Prime		Standby	
		hp	kW		kWe	kVa	kWe	kVa
1800 (60)	88-92	5.6	4.2	0.8	64-66	79-83	70-73	88-92

POWER AT 1800 RPM (60 Hz)



Photographs may show non-standard equipment

JOHN DEERE ENGINE MANUFACTURING ISO 9000 REGISTERED

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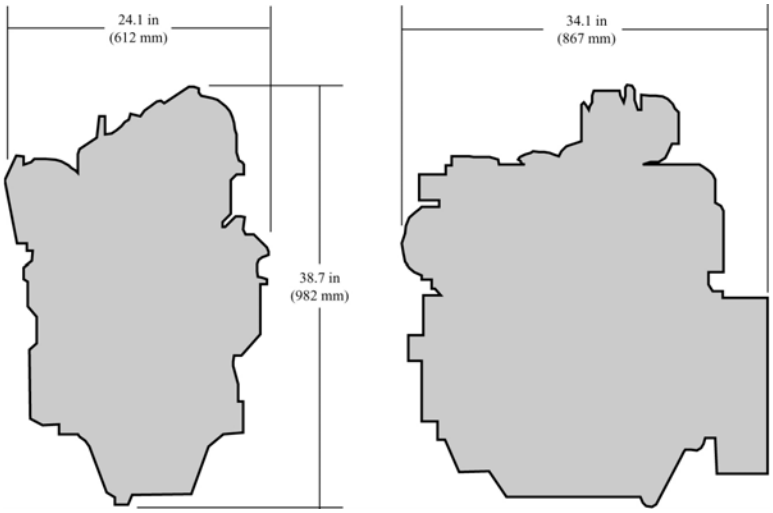
GENERAL DATA

Model	4045TF275
Number of Cylinders	4
Displacement - L (cu.in)	4.5 (276)
Bore and Stroke - in. (mm)	4.19 x 5.00 (106 x 127)
Compression Ratio	17.0:1
Engine Type	In-line, 4-Cycle
Aspiration	Turbocharged
Length - in. (mm)	34.1 (867)
Width - in. (mm)	24.1 (612)
Height - in. (mm)	38.7 (982)
Weight - lb. (kg)	993 (451)

DIMENSIONS



FEATURES AND BENEFITS

Dynamically Balanced Crankshaft
- Induction-hardened journals for long hours of reliable service
- Robust design to drive machinery from the front of the crankshaft
- Supported by five main bearings

Forged-Steel Connecting Rods
- 45-degree connecting rod/cap-joint design allows the use of large connecting rod bearings for increased durability

Replaceable Wet-type Cylinder Liners
- Provide excellent heat dissipation
- Precision machined for long life
- Rebuild to original specifications

Smooth Operation
- Smooth vibration with full length engine balancers

Easy to Apply, Easy to Install
- Front and rear engine mounting pads on the side of the block facilitates installations
- Either side service for filters and service points
- Engine mounted ECU and electronic speed control simplify installation and packaging
- All connection points in common locations make it easy to install or package

Compact Size
- Short length is ideal for both skid and packaged installations
- High mount or low mount turbocharger position to meet packaging requirements

World-class Performance
- Excellent fuel economy and low oil consumption

Fuel System Controls
- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection
- 3-5% Droop Governing
- 12V or 24V Electric Shutoff

Emissions
- EPA Tier II Certified

Specifications and design subject to change without notice

JOHN DEERE

John Deere Power Systems
3801 W. Ridgeway Ave.
PO Box 5100
Waterloo, IA 50704-5100
Phone (800) 533-6446
Fax (319) 292-5075

John Deere Power Systems
Usine de Saran
La Foulonnerie - B.P. 11013
45401 Fleury-les-Aubrais Cedex-France
Phone (33) 2 38 82 61 19
Fax (33) 2 38 82 60 00

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